Scientific Excellence • Resource Protection & Conservation • Benefits for Canadians
Excellence scientifique • Protection et conservation des ressources • Bénéfices aux Cana

Current Statistics of the Gulf of St. Lawrence and Estuary

D.N. Gregory, O.C. Nadeau, and D. Lefaivre

Prepared by:

Physical and Chemical Sciences Branch
Scotia-Fundy Region
Department of Fisheries and Oceans

Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, Nova Scotia
B2Y 4A2

November 1989

Canadian Technical Report of Hydrography and Ocean Sciences No. 120

Fisheries and Oceans / Pêches et Océans

Canada

Canadian Technical Report of Hydrography and Ocean Sciences

Technical reports contain scientific and technical information that contributes to existing knowledge but which is not normally appropriate for primary literature. The subject matter is related generally to programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Technical reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report is abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Technical reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications is published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 39: Index to Publications 1982. The current series, which begins with report number 1, was initiated in January 1982.

Rapport technique canadien sur l'hydrographie et les sciences océaniques

Les rapports techniques contiennent des renseignements scientifiques et techniques qui constituent une contribution aux connaissances actuelles, mais qui ne sont pas normalement appropriés pour la publication dans un journal scientifique. Le sujet est généralement lié aux programmes et intérêts du service des Sciences et levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports techniques peuvent être cités comme des publications complètes. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports techniques sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les rapports techniques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports en décembre 1981. Une liste complète de ces publications figure dans le volume 39, Index des publications 1982 du *Journal canadien des sciences halieutiques et aquatiques*. La série actuelle a commencé avec la publication du rapport numéro 1 en janvier 1982.

Canadian Technical Report of
Hydrography and Ocean Sciences No. 120

November 1989

CURRENT STATISTICS OF THE GULF OF ST. LAWRENCE AND ESTUARY

by

D.N. Gregory[1], O.C. Nadeau[2], and D. Lefaivre[3]

[1]Physical and Chemical Sciences Branch, Scotia-Fundy Region,
Department of Fisheries and Oceans, Bedford Institute of Oceanography,
Dartmouth, Nova Scotia, Canada B2Y 4A2

[2]Canadian Hydrographic Service, Scotia-Fundy Region,
Department of Fisheries and Oceans, Bedford Institute of Oceanography,
Dartmouth, Nova Scotia, Canada B2Y 4A2

[3]Physical and Chemical Sciences Branch, Quebec Region,
Department of Fisheries and Oceans, Maurice Lamontagne Institute,
Mont-Joli, Quebec, Canada G5H 3Z4

90-02757/

Minister of Supply and Services 1989
Cat. No. Fs 97-18/120E ISSN 0711-6764

Correct citation for this publication:

Gregory, D.N., O.C. Nadeau, and D. Lefaivre. 1989. Current Statistics of the Gulf of St. Lawrence and Estuary. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 120: vi + 178 pp.

ABSTRACT

Gregory, D.N., O.C. Nadeau, and D. Lefaivre. 1989. Current Statistics of the Gulf of St. Lawrence and Estuary. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 120: vi + 178 pp.

This report presents a statistical summary of all of the moored current data for the Gulf of St. Lawrence and Estuary available from the Bedford Institute of Oceanography and the Maurice Lamontagne Institute. Included in the data set are one thousand and eighty seven data months from two hundred and five locations spanning the period from 1963 - 1988.

Arranged by month and blocked by one-degree squares, the report includes, for all deployments, tables of the maximum observed speed, magnitude and direction of the vector mean current, and the magnitude and orientation of the maximum and minimum axes of variability. The variability is reported in both the tidal and sub-tidal (low frequency) ranges. The same information is also presented in a series of maps subdivided into three layers, namely $z \leq 30$m., 30m. $< z \geq 100$m., and $z > 100$m.

The primary maps separate the St. Lawrence system into the Gulf and Estuary. Secondary maps describe specific regions, namely the Gaspe Current, Strait of Belle Isle and Cabot Strait.

RESUME

Gregory, D.N., O.C. Nadeau, and D. Lefaivre. 1989. Current Statistics of the Gulf of St. Lawrence and Estuary. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 120: vi + 178 pp.

Le présent rapport contient un résumé statistique de toutes les données des courantomètres du golfe et de l'estuaire du Saint-Laurent recueillies par l'Institut océanographique de Bedford et par l'Institut Maurice Lamontagne. Il comprend notamment mille quatre-vingt-sept données-mois, provenant de deux cent cinq endroits et portant sur la période 1963-1988.

Organisée par mois et par carrés d'un degré de côté, l'information présentée comprend aussi, pour tous les mouillages, des tableaux de la vitesse maximale observée, de la grandeur et de la direction du vecteur courant moyen ainsi que de la grandeur et de l'orientation des axes minimal et maximal de variabilité. Cette dernière est donnée en valeurs tidales et intertidales (basse fréquences). L'information est également présentée sous forme de cartes portant sur trois couches, soit $z \leq 30$m, 30m $< z \geq 100$m et $z > 100$m.

Dans les cartes principales, on considère d'une part le golfe et d'autre part l'estuaire du Saint-Laurent. Les cartes secondaires portent sur des régions spécifiques, en l'occurrence le courant de Gaspé, le détroit de Belle-Isle et le détroit de Cabot.

TABLE OF CONTENTS

	Page
Abstract/Resume	iii
Introduction	1
Current Meter Data Base	1
Statistical Analysis and Data Presentation	2
References	4
Current Statistics of the Gulf of St. Lawrence	7
Current Statistics of the St. Lawrence Estuary	37

LIST OF FIGURES

Gulf of St. Lawrence and Estuary Station Positions		5
Gulf of St. Lawrence		
Annual Mean, Mid and Low Frequency Variability		
	Surface to 30 M.	56
	Over 30 to 100 M.	58
	Over 100 M.	60
Monthly Mean Current		
	Surface to 30 M.	62
	Over 30 to 100 M.	65
	Over 100 M.	68
Mid Frequency Variability		
	Surface to 30 M.	71
	Over 30 to 100 M.	74
	Over 100 M.	77
Low Frequency Variability		
	Surface to 30 M.	80
	Over 30 to 100 M.	83
	Over 100 M.	86

St. Lawrence Estuary

Annual Mean, Mid and Low Frequency Variability

	Surface to 30 M.	90
	Over 30 to 100 M.	92
	Over 100 M.	94

Monthly Mean Current

	Surface to 30 M.	96
	Over 30 to 100 M.	99
	Over 100 M.	102

Mid Frequency Variability

	Surface to 30 M.	105
	Over 30 to 100 M.	108
	Over 100 M.	111

Low Frequency Variability

	Surface to 30 M.	114
	Over 30 to 100 M.	117
	Over 100 M.	120

Cabot Strait

Annual Mean, Mid and Low Frequency Variability

	Surface to 30 M.	123
	Over 30 to 100 M.	124
	Over 100 M.	125

Monthly Mean Current

	Surface to 30 M.	126
	Over 30 to 100 M.	129
	Over 100 M.	132

Mid Frequency Variability

	Surface to 30 M.	135
	Over 30 to 100 M.	138
	Over 100 M.	141

Low Frequency Variability

	Surface to 30 M.	144
	Over 30 to 100 M.	147
	Over 100 M.	150

Strait of Belle Isle

Annual Mean, Mid and Low Frequency Variability

	Surface to 30 M.	153
	Over 30 to 100 M.	154

Monthly Mean Current
Surface to 30 M. 155
Over 30 to 100 M. 158

Mid Frequency Variability
Surface to 30 M. 159
Over 30 to 100 M. 162

Low Frequency Variability
Surface to 30 M. 163
Over 30 to 100 M. 166

Gaspe Current

Annual Mean, Mid and Low Frequency Variability
Surface to 30 M. 167
Over 30 to 100 M. 168
Over 100 M. 169

Monthly Mean Current
Surface to 30 M. 170
Over 30 to 100 M. 171
Over 100 M. 172

Mid Frequency Variability
Surface to 30 M. 173
Over 30 to 100 M. 174
Over 100 M. 175

Low Frequency Variability
Surface to 30 M. 176
Over 30 to 100 M. 177
Over 100 M. 178

Introduction

This report presents a statistical summary of all of the moored current data for the Gulf of St. Lawrence and Estuary that is held by Physical and Chemical Sciences (PCS) at the Bedford Institute and reported in the BIO Inventory of Moored Current Meter Data (Gregory,1988). Additional data for this report were obtained from an experiment conducted in Jacques Cartier Passage north of Anticosti Island by researchers at Maurice Lamontagne Institute. The report is a companion to and follows a similar form as an earlier report (Gregory and Smith, 1988) describing the current statistics on the Scotian Shelf.

The report includes monthly summaries of maximum recorded speed, magnitude and direction of the vector mean current, and the current variability (orientation and magnitude of the major and minor axes expressed as a standard deviation) in the tidal and and sub-tidal ranges. Also included are plots of the monthly mean speed and variability separated into three depth levels, as well as averages over all of the months for which data are available at the same three levels.

Due to the large geographic extent of the area, and the different current regimes, the Gulf and Estuary are considered separately. Specific areas of interest (Cabot Strait, Strait of Belle Isle and Gaspe Current) are also repeated in the maps on a larger scale.

Current Meter Data Base

The initial data base for the analysis consisted of all of the current meter data in the Gulf and Estuary that had a record length of at least fifteen days (see station locator map page 5). The coverage area extends from Cabot Strait and the Strait of Belle Isle on the eastern boundary to a longitude of approximately 71W, about 100 kilometres downstream from Quebec City. All deployments in sheltered embayments and the very nearshore were excluded. Data records with comments questioning their quality were also

excluded from the data base. The resulting data set consisted of one thousand and eighty seven data months from two hundred and five locations spanning the period from 1963 to 1988.

All of the selected time series were initially filtered with a simple running mean filter and sub-sampled at hourly intervals. The number of filter weights selected was dependent upon the initial sampling interval, typically 10 - 30 minutes, but was as short as two minutes. The hourly data were then low pass filtered using a Cartwright filter with 129 filter weights and a high frequency cut-off of 0.864 cycles/day. This corresponds to a period of approximately 27.7 hours. These data were sub-sampled at six hour intervals. This second filter effectively removes the semi-diurnal and diurnal tidal frequencies as well as higher frequencies. In the tables and plots, the six-hour sampled data are referred to as low-frequency. The hourly sampled data, which includes the tidal frequencies, but have been smoothed to remove frequencies with periods of a few minutes, is labelled for convenience as mid frequency.

Statistical Analysis and Data Presentation

The maximum observed speed and the magnitude and direction of the vector mean current were determined for each month from the hourly data. To be included in the analysis, a series had to have a record length of at least 10 days within a given month after the hourly filter was applied. The magnitude and orientation of the principal axis of variance were determined using both the hourly and six-hourly data. The principal axes analysis determines both the orientation and the magnitude of the maximum and minimum variance in the vector time series and is a measure of the variability of the data. The direction corresponds to that of the major axis in degrees true. When used with the vector mean and making some assumptions about the distribution, (i.e. the mean +/- N standard deviations), one can make some estimates of the current extremes in both the sub-tidal (low frequency) and tidal (mid frequency) bands. The tables and plots report these values as standard deviations (square root of the variance). The units are in metre/s.

To display the results on the maps, the area was divided into two regions; the Gulf of St. Lawrence which is bounded by the Strait of Belle Isle and Cabot Strait on the east and Pointe des Monts on the west; and the Estuary which starts from Pointe des Monts and extends upstream to approximately 71W. Both of the regions were separated into three levels; a surface layer down to and including 30 metres, an intermediate layer from 30 metres to 100 metres, and a lower layer from 100 metres to the bottom. The choice of these layers was partially based on the oceanography (R.W. Trites, G.L. Bugden, personal communication) tempered by the actual spatial distribution of the data.

For a clearer presentation in areas of high data concentration, the current means and variabilities displayed may, in some cases, be composites of more than one observation. Within the Gulf, all stations within 0.05 degrees in either latitude or longitude (roughly 3 nautical miles) in a given layer were combined. For the mean speed and direction this is simply a vector average weighted by the respective record lengths. The average principal axes of variance are computed from the combined variances and covariances of the components measured within a given (vertical) layer and (horizontal, .05 x .05 deg) grid square. The same procedure was followed in the Estuary with the exception that the averaging was carried over 0.05 degree latitude and 0.10 degree longitude. No averaging was done in displaying the data contained within the sub-regions of Cabot Strait, Strait of Belle Isle and Gaspe Current.

A potential source of confusion, particularly in the mid and lower layers of the Estuary, can occur as a consequence of the averaging. Since the pycnocline surfaces towards the north shore of the Estuary and likely crosses the defined layer boundaries, it is entirely possible that a record showing a flow upstream is averaged with a downstream flow. If there are any doubts as to the validity of a particular observation displayed on one of the plots, check the tables for the appropriate actual values.

All of the available data are displayed in the tables. The statistics are grouped by one degree squares for each month. The geographic co-ordinates at the beginning of each group refer to the south-east corner of the box. For the

first group shown on page 8, the lable -46 N 62 W- indicates the box extends from 46 to 47 degrees north and from 62 to 63 degrees west. For each set of statistics, the year, actual position, depth and duration of the record within the month are reported.

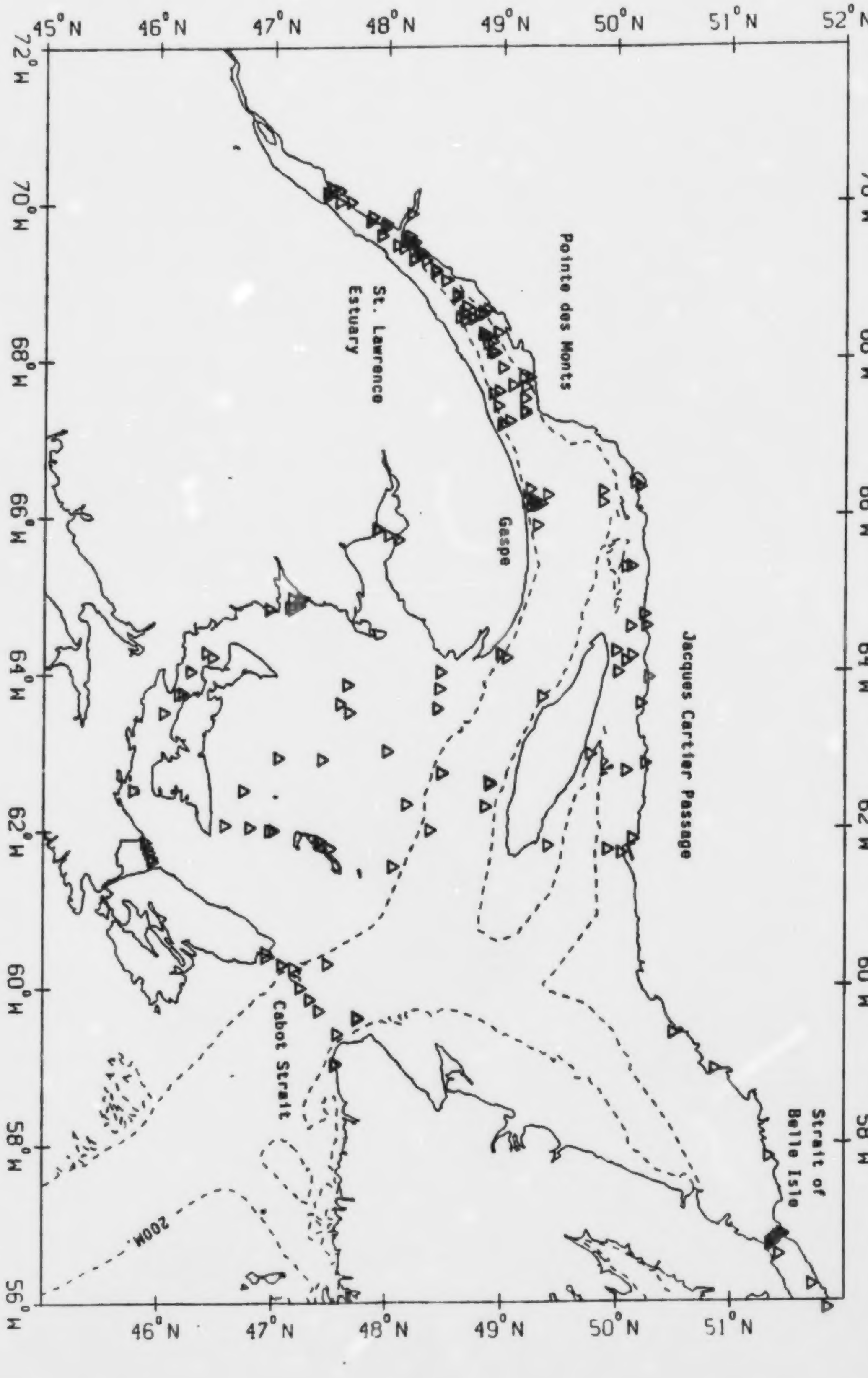
Finally, a cautionary note. Despite considerable effort to quality control the data used in the analysis, errors are inevitable. Should you have questions concerning the validity of any of the results, please contact the author.

References

Gregory, D.N. 1988. Bedford Institute of Oceanography Inventory of Moored Current Meters. Physical and Chemical Sciences Branch Internal Report March 1988

Gregory, D.N. and P.C. Smith 1988. Current Statistics of the Scotian Shelf and Slope. Can. Tech. Rep. Hydrogr. Ocean Sci. No. 106: iv + 197 pp.

GULF OF ST. LAWRENCE STATION POSITIONS



CURRENT STATISTICS OF THE GULF OF ST. LAWRENCE

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

JANUARY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—46 N 62 W—												
1984	46 44.16N	62 30.60W	20 M.	31	.404	.030	236	.158	.074	108	.157	.071	107
	—47 N 59 W—												
1981	47 44.61N	59 37.32W	250 M.	31	.508	.090	331	.134	.058	331	.063	.027	327
1979	47 44.83N	59 35.77W	300 M.	31	.483	.076	339	.129	.046	341	.067	.025	340
	—47 N 63 W—												
1969	47 40.00N	63 30.00W	15 M.	21	.336	.066	258	.132	.108	120	.108	.074	92
1969	47 40.00N	63 30.00W	16 M.	21	.345	.067	252	.137	.109	120	.109	.077	88
1969	47 40.00N	63 30.00W	61 M.	21	.300	.014	294	.123	.084	325	.090	.053	329
1969	47 40.00N	63 30.00W	63 M.	21	.278	.016	350	.115	.075	316	.068	.044	328
	—48 N 62 W—												
1980	48 28.16N	62 43.32W	250 M.	31	.374	.003	236	.148	.051	106	.090	.039	114
1981	48 28.34N	62 43.50W	250 M.	31	.435	.086	110	.141	.051	100	.062	.035	101
1979	48 50.93N	62 17.72W	250 M.	31	.319	.020	279	.117	.036	60	.047	.029	59
1981	48 53.00N	62 36.31W	250 M.	31	.351	.027	254	.140	.056	105	.059	.030	121
1980	48 53.20N	62 34.90W	250 M.	31	.362	.060	287	.130	.042	104	.072	.019	107
1979	48 53.35N	62 35.03W	250 M.	31	.552	.023	215	.159	.053	97	.084	.029	95
	—49 N 64 W—												
1969	49 2.00N	64 11.50W	15 M.	20	.800	.379	129	.254	.154	335	.189	.107	340
1969	49 2.00N	64 11.50W	16 M.	20	.780	.376	125	.249	.154	329	.186	.106	337
	—51 N 56 W—												
1975	51 25.60N	56 35.50W	13 M.	24	1.721	.063	258	.645	.074	61	.352	.041	62
1975	51 25.60N	56 35.50W	20 M.	24	1.655	.074	249	.619	.060	59	.336	.033	61

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — FEBRUARY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—46 N 62 W—												
1984	46 44.16N	62 30.60W	20 M.	29	.473	.055	220	.165	.107	119	.164	.106	119
	—46 N 63 W—												
1988	46 2.38N	63 30.47W	19 M.	11	.323	.012	101	.097	.035	124	.035	.019	130
1988	46 10.30N	63 44.70W	14 M.	11	1.050	.021	155	.418	.014	322	.083	.006	324
1988	46 12.17N	63 44.93W	19 M.	12	.845	.028	154	.349	.018	133	.071	.009	131
	—46 N 64 W—												
1988	46 16.27N	64 1.91W	15 M.	12	.921	.014	65	.387	.029	108	.072	.009	104
	—47 N 59 W—												
1981	47 44.61N	59 37.32W	250 M.	28	.427	.048	5	.129	.060	333	.062	.043	324
1979	47 44.83N	59 35.77W	300 M.	28	.477	.085	344	.131	.044	339	.083	.023	341
	—47 N 63 W—												
1970	47 39.00N	63 51.00W	14 M.	28	.249	.041	131	.084	.062	341	.053	.039	28
1970	47 39.00N	63 51.00W	56 M.	28	.287	.013	344	.081	.065	348	.053	.028	8
1969	47 40.00N	63 30.00W	15 M.	28	.361	.032	252	.134	.076	329	.096	.044	339
1969	47 40.00N	63 30.00W	16 M.	28	.337	.038	251	.139	.075	326	.098	.044	334
1969	47 40.00N	63 30.00W	61 M.	28	.256	.027	147	.100	.072	321	.048	.036	349
1969	47 40.00N	63 30.00W	63 M.	28	.249	.020	107	.099	.071	326	.058	.034	348
	—48 N 62 W—												
1980	48 28.16N	62 43.32W	250 M.	29	.368	.007	325	.161	.039	106	.108	.022	111
1981	48 28.34N	62 43.50W	250 M.	28	.299	.008	253	.145	.034	103	.072	.021	107
1979	48 50.93N	62 17.72W	250 M.	28	.342	.026	291	.118	.040	63	.042	.030	72
1981	48 53.00N	62 36.31W	250 M.	28	.412	.041	278	.131	.038	102	.061	.020	106
1980	48 53.20N	62 34.90W	250 M.	29	.427	.021	231	.138	.046	104	.085	.031	107
1979	48 53.35N	62 35.03W	250 M.	28	.394	.049	285	.139	.051	100	.067	.034	105
	—48 N 63 W—												
1970	48 .00N	63 .30W	57 M.	28	.295	.015	71	.119	.084	120	.075	.053	127
1970	48 .00N	63 .30W	58 M.	28	.326	.017	65	.113	.083	118	.073	.052	123

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

FEBRUARY continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	--49 N 64 W--												
1969	49 2.00N	64 11.50W	15 M.	28	.800	.024	52	.401	.208	42	.357	.158	41
1969	49 2.00N	64 11.50W	16 M.	28	.800	.226	85	.331	.222	87	.276	.178	91
	-51 N 56 W-												
1975	51 25.60N	56 35.50W	13 M.	28	1.546	.021	345	.569	.068	60	.283	.017	61
1975	51 25.60N	56 35.50W	20 M.	28	1.589	.034	280	.554	.065	59	.267	.018	60

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—46 N 62 W—												
1984	46 44.16N	62 30.60W	20 M.	31	.455	.048	156	.176	.122	93	.175	.121	92
	—46 N 63 W—												
1988	46 2.38N	63 30.47W	19 M.	31	.402	.027	146	.095	.039	120	.044	.022	122
1988	46 10.30N	63 44.70W	14 M.	31	1.148	.067	149	.387	.020	322	.128	.010	319
1988	46 12.17N	63 44.93W	19 M.	31	1.036	.063	140	.308	.018	133	.113	.011	133
	—46 N 64 W—												
1988	46 16.27N	64 1.91W	15 M.	31	.913	.041	81	.341	.029	106	.097	.013	103
	—47 N 59 W—												
1981	47 44.61N	59 37.32W	250 M.	31	.443	.109	335	.132	.046	336	.066	.023	325
1979	47 44.83N	59 35.77W	300 M.	31	.450	.098	347	.118	.042	344	.053	.019	346
	—47 N 63 W—												
1970	47 39.00N	63 51.00W	14 M.	31	.249	.003	285	.089	.059	355	.068	.033	21
1970	47 39.00N	63 51.00W	56 M.	31	.322	.026	22	.090	.066	347	.058	.034	352
1969	47 40.00N	63 30.00W	15 M.	28	.490	.062	151	.140	.104	331	.103	.081	351
1969	47 40.00N	63 30.00W	16 M.	29	.478	.065	151	.144	.104	332	.108	.078	348
1969	47 40.00N	63 30.00W	61 M.	29	.387	.043	146	.118	.092	327	.077	.057	351
1969	47 40.00N	63 30.00W	63 M.	25	.336	.045	137	.103	.074	319	.068	.046	333
	—48 N 62 W—												
1980	48 28.16N	62 43.32W	250 M.	31	.362	.026	126	.155	.038	108	.103	.020	110
1981	48 28.34N	62 43.50W	250 M.	31	.501	.137	106	.152	.036	104	.088	.018	104
1979	48 50.93N	62 17.72W	250 M.	31	.305	.014	241	.119	.036	60	.022	.022	42
1981	48 53.00N	62 36.31W	250 M.	31	.347	.066	280	.120	.037	103	.055	.025	110
1980	48 53.20N	62 34.90W	250 M.	31	.351	.040	286	.128	.041	103	.061	.022	110
1979	48 53.35N	62 35.03W	250 M.	31	.447	.033	292	.147	.053	104	.068	.020	106
	—48 N 63 W—												
1970	48 .00N	63 .30W	57 M.	18	.347	.012	133	.106	.079	107	.041	.038	122

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—49 N 64 W—												
1969	49 2.00N	64 11.50W	15 M.	27	.772	.032	351	.423	.152	42	.379	.103	41
1969	49 2.00N	64 11.50W	16 M.	26	.800	.348	84	.308	.169	82	.253	.109	87
	—51 N 56 W—												
1975	51 25.60N	56 35.50W	13 M.	31	2.016	.039	311	.622	.097	62	.355	.033	65
1975	51 25.60N	56 35.50W	20 M.	31	1.950	.054	273	.594	.080	60	.339	.029	63

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — APRIL

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—46 N 62 W—												
1984	46 44.16N	62 30.60W	20 M.	30	.398	.066	127	.161	.118	108	.159	.116	108
	—46 N 63 W—												
1988	46 2.38N	63 30.47W	19 M.	23	.274	.040	158	.096	.054	120	.048	.036	360
1988	46 10.30N	63 44.70W	14 M.	25	1.145	.036	164	.410	.021	322	.155	.010	322
1988	46 12.17N	63 44.93W	19 M.	17	.682	.007	65	.306	.032	132	.060	.017	133
	—46 N 64 W—												
1988	46 16.27N	64 1.91W	15 M.	25	.910	.019	78	.369	.041	107	.090	.021	108
	—47 N 59 W—												
1981	47 44.61N	59 37.32W	250 M.	24	.436	.090	341	.134	.054	339	.037	.024	13
1979	47 44.83N	59 35.77W	300 M.	30	.381	.046	342	.111	.036	343	.030	.016	356
1980	47 44.87N	59 35.96W	250 M.	11	.247	.046	154	.096	.032	339	.040	.010	350
	—47 N 63 W—												
1970	47 39.00N	63 51.00W	14 M.	30	.493	.023	29	.103	.074	345	.079	.051	5
1970	47 39.00N	63 51.00W	56 M.	27	.260	.024	8	.085	.063	347	.054	.024	17
	—48 N 62 W—												
1980	48 28.16N	62 43.32W	250 M.	19	.329	.028	104	.136	.036	109	.048	.023	108
1980	48 28.30N	62 43.28W	250 M.	11	.364	.053	105	.125	.031	106	.046	.016	113
1981	48 28.34N	62 43.50W	250 M.	29	.399	.048	305	.143	.041	101	.042	.028	106
1979	48 50.93N	62 17.72W	250 M.	30	.306	.013	353	.121	.038	67	.035	.014	60
1981	48 53.00N	62 36.31W	250 M.	28	.361	.007	283	.127	.062	101	.057	.042	98
1980	48 53.20N	62 34.60W	250 M.	12	.253	.038	294	.106	.040	104	.049	.017	127
1980	48 53.20N	62 34.90W	250 M.	18	.333	.017	307	.141	.048	98	.061	.034	105
1979	48 53.35N	62 35.03W	250 M.	30	.355	.037	281	.134	.038	105	.045	.027	107
	—51 N 56 W—												
1975	51 25.60N	56 35.50W	13 M.	30	1.985	.070	283	.607	.091	63	.345	.029	65
1975	51 25.60N	56 35.50W	20 M.	30	1.924	.083	264	.569	.080	61	.316	.027	62

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — MAY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	–46 N 62 W–												
1984	46 44.16N	62 30.60W	20 M.	31	.476	.138	126	.153	.091	122	.152	.090	122
	–46 N 64 W–												
1983	46 57.60N	64 49.20W	7 M.	15	.913	.051	356	.380	.195	16	.121	.090	29
1983	46 57.62N	64 49.28W	6 M.	16	.950	.086	10	.382	.178	22	.147	.069	17
	–47 N 59 W–												
1968	47 33.00N	59 .50W	4 M.	14	.601	.014	212	.176	.043	82	.089	.020	80
1968	47 33.50N	59 2.10W	4 M.	14	.368	.010	36	.098	.019	89	.032	.009	89
1979	47 44.83N	59 35.77W	300 M.	15	.411	.038	344	.108	.037	341	.053	.016	0
1980	47 44.87N	59 35.96W	250 M.	31	.349	.024	354	.113	.033	336	.042	.017	340
1979	47 44.87N	59 35.96W	300 M.	16	.377	.042	343	.124	.029	346	.056	.010	353
	–47 N 60 W–												
1979	47 28.90N	60 17.82W	300 M.	16	.314	.039	123	.130	.039	129	.040	.009	133
	–48 N 62 W–												
1980	48 28.30N	62 43.28W	250 M.	31	.297	.011	200	.117	.030	100	.055	.021	110
1979	48 50.93N	62 17.72W	250 M.	19	.250	.007	173	.102	.041	66	.031	.017	33
1979	48 53.20N	62 34.60W	250 M.	15	.369	.037	108	.132	.034	101	.033	.020	78
1980	48 53.20N	62 34.60W	250 M.	31	.363	.032	119	.127	.037	104	.055	.026	103
1979	48 53.35N	62 35.03W	250 M.	16	.329	.062	286	.118	.030	104	.037	.016	107
	–49 N 66 W–												
1979	49 51.75N	66 10.20W	25 M.	10	.459	.203	243	.108	.061	47	.064	.022	23
1979	49 51.75N	66 10.20W	60 M.	13	.367	.151	261	.095	.067	54	.064	.031	17
1979	49 51.75N	66 10.20W	100 M.	13	.357	.099	253	.102	.045	54	.070	.021	38
1979	49 51.75N	66 10.20W	150 M.	13	.257	.050	253	.085	.051	85	.037	.022	52
1979	49 51.80N	66 18.70W	25 M.	13	.460	.193	246	.147	.112	3	.140	.057	0
	–50 N 59 W–												
1976	50 29.27N	59 24.50W	12 M.	14	1.023	.209	247	.242	.082	63	.231	.047	64

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-50 N 61 W-												
1977	50 7.70N	61 52.80W	7 M.	21	.449	.055	165	.125	.085	336	.089	.065	350
	-50 N 66 W-												
1973	50 8.60N	66 25.00W	5 M.	13	.793	.134	201	.242	.091	21	.209	.056	18
1973	50 11.10N	66 22.10W	5 M.	13	.700	.043	259	.259	.048	115	.142	.021	111
	-51 N 56 W-												
1975	51 25.50N	56 35.50W	13 M.	31	1.873	.087	264	.571	.084	62	.283	.023	64
1975	51 25.60N	56 35.50W	20 M.	31	1.772	.110	251	.549	.079	60	.270	.020	62

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — JUNE

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—45 N 61 W—												
1974	45 52.90N	61 51.80W	8 M.	18	.451	.070	101	.120	.097	0	.091	.050	4
1974	45 52.90N	61 51.80W	20 M.	18	.496	.046	110	.115	.084	319	.090	.048	325
1975	45 53.05N	61 51.80W	5 M.	19	.437	.084	64	.133	.083	349	.120	.041	344
1975	45 53.05N	61 51.80W	30 M.	19	.209	.017	80	.064	.047	122	.036	.015	318
1975	45 56.20N	61 39.40W	8 M.	18	.373	.051	120	.145	.106	8	.087	.077	57
1975	45 56.20N	61 39.40W	20 M.	18	.442	.043	98	.146	.117	4	.085	.054	89
1975	45 56.20N	61 39.40W	30 M.	18	.343	.022	11	.137	.071	31	.087	.029	37
1974	45 56.25N	61 39.56W	8 M.	18	.420	.053	62	.129	.084	20	.089	.041	20
	—46 N 62 W—												
1984	46 44.16N	62 30.60W	20 M.	30	.334	.045	91	.131	.090	98	.131	.089	98
	—46 N 64 W—												
1983	46 57.60N	64 49.20W	7 M.	30	.746	.073	43	.213	.177	28	.099	.051	324
1983	46 57.62N	64 49.28W	6 M.	30	.837	.095	43	.237	.147	52	.079	.066	329
	—47 N 59 W—												
1968	47 33.00N	59 .50W	4 M.	13	.727	.073	231	.218	.054	75	.112	.031	67
1968	47 33.50N	59 2.10W	4 M.	10	.368	.009	305	.119	.023	89	.045	.007	88
1980	47 44.87N	59 35.96W	250 M.	30	.385	.075	346	.115	.036	337	.035	.020	336
1979	47 44.87N	59 35.96W	300 M.	30	.352	.036	342	.109	.035	345	.049	.017	356
	—47 N 60 W—												
1967	47 4.60N	60 17.40W	17 M.	17	1.110	.245	105	.265	.168	126	.173	.072	109
1967	47 4.60N	60 17.40W	72 M.	17	.713	.078	111	.211	.082	108	.088	.031	101
1979	47 28.90N	60 17.82W	300 M.	30	.371	.062	126	.124	.039	125	.048	.010	130
	—47 N 62 W—												
1967	47 25.80N	62 54.00W	13 M.	16	.412	.038	319	.130	.095	106	.040	.027	349
	—47 N 65 W—												
1964	47 54.38N	65 49.67W	3 M.	20	.332	.071	85	.079	.022	81	.032	.010	75
1964	47 54.38N	65 49.67W	5 M.	19	.778	.167	105	.223	.051	113	.123	.028	119

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 65 W-												
1964	47 54.38N	65 49.67W	15 M.	21	.497	.058	118	.152	.039	102	.059	.015	93
	-48 N 61 W-												
1967	48 22.20N	61 59.90W	77 M.	16	.423	.116	54	.147	.068	74	.063	.022	56
	-48 N 62 W-												
1980	48 28.30N	62 43.28W	250 M.	30	.299	.029	82	.113	.038	105	.044	.021	112
1980	48 53.20N	62 34.60W	250 M.	30	.387	.025	49	.137	.056	95	.051	.033	60
1979	48 53.20N	62 34.60W	250 M.	30	.352	.034	129	.129	.032	101	.030	.018	111
	-48 N 64 W-												
1967	48 59.10N	64 14.00W	16 M.	15	1.056	.450	139	.220	.101	132	.168	.046	319
1967	48 59.10N	64 14.00W	78 M.	16	.560	.084	151	.215	.048	129	.104	.022	129
	-48 N 67 W-												
1963	48 59.00N	67 10.00W	13 M.	16	1.126	.323	73	.240	.093	69	.136	.034	69
1963	48 59.00N	67 10.00W	75 M.	16	.465	.080	256	.185	.058	73	.076	.007	79
	-49 N 63 W-												
1967	49 20.40N	63 41.40W	11 M.	15	.693	.079	253	.273	.208	135	.167	.093	351
1967	49 20.40N	63 41.40W	73 M.	15	.427	.038	248	.194	.061	125	.054	.028	128
1967	49 20.40N	63 41.40W	209 M.	15	.401	.023	294	.212	.061	108	.024	.012	117
	-49 N 65 W-												
1978	49 17.49N	65 52.69W	20 M.	13	1.182	.758	83	.182	.070	89	.139	.038	91
1978	49 17.49N	65 52.69W	60 M.	13	.617	.283	78	.142	.037	90	.056	.020	91
1978	49 17.49N	65 52.69W	150 M.	13	.409	.085	77	.140	.035	76	.049	.011	79
	-49 N 66 W-												
1978	49 13.80N	66 20.37W	60 M.	12	.668	.160	86	.175	.043	65	.123	.021	59
1978	49 14.30N	66 7.46W	40 M.	13	1.039	.440	81	.229	.057	75	.169	.022	75
1978	49 15.20N	66 12.56W	60 M.	12	.615	.228	80	.144	.040	70	.098	.020	68

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 66 W-												
1978	49 15.20N	66 12.56W	150 M.	12	.424	.063	85	.126	.025	80	.052	.011	82
1978	49 16.08N	66 7.94W	100 M.	13	.695	.230	84	.201	.057	77	.048	.026	62
1978	49 16.08N	66 7.94W	150 M.	13	.386	.086	80	.130	.037	73	.039	.011	73
1967	49 16.40N	66 11.80W	13 M.	14	1.003	.531	75	.174	.099	80	.087	.054	65
1967	49 16.40N	66 11.80W	75 M.	14	.571	.158	68	.133	.062	77	.065	.050	82
1967	49 16.40N	66 11.80W	213 M.	14	.269	.015	40	.096	.076	69	.034	.010	63
1978	49 17.68N	66 8.14W	150 M.	13	.381	.074	86	.128	.033	77	.039	.011	84
1978	49 19.55N	66 9.25W	150 M.	12	.384	.070	89	.135	.048	76	.038	.014	100
1978	49 22.93N	66 15.91W	150 M.	14	.354	.061	105	.101	.037	78	.035	.012	121
1979	49 51.75N	66 10.20W	60 M.	30	.365	.076	241	.103	.061	72	.074	.045	56
1979	49 51.75N	66 10.20W	150 M.	30	.225	.008	298	.083	.054	76	.057	.040	57
1979	49 51.80N	66 18.70W	25 M.	30	.407	.120	224	.113	.093	134	.089	.043	332
	-49 N 67 W-												
1967	49 .00N	67 11.00W	11 M.	13	.828	.212	98	.284	.119	59	.211	.067	60
1967	49 .00N	67 11.00W	73 M.	13	.425	.087	226	.176	.042	66	.123	.018	67
1967	49 .00N	67 11.00W	144 M.	13	.299	.016	239	.147	.063	58	.040	.009	62
1963	49 3.00N	67 13.00W	13 M.	15	.681	.196	111	.176	.117	54	.078	.063	75
1963	49 3.00N	67 13.00W	75 M.	16	.421	.126	218	.123	.061	73	.044	.030	105
	-50 N 59 W-												
1976	50 29.27N	59 24.50W	12 M.	14	.503	.127	255	.117	.066	72	.096	.038	72
	-50 N 62 W-												
1977	50 14.16N	62 50.25W	7 M.	14	.577	.082	245	.156	.086	92	.102	.035	69
	-50 N 63 W-												
1982	50 12.00N	63 36.00W	6 M.	16	.246	.029	216	.093	.046	24	.025	.016	13
1982	50 16.00N	63 56.00W	4 M.	30	.549	.050	38	.093	.021	36	.041	.005	37
	-50 N 64 W-												
1983	50 .00N	64 .00W	0 M.	21	.182	.031	162	.083	.037	319	.013	.009	128
1967	50 4.30N	64 8.80W	13 M.	15	.928	.017	121	.401	.125	85	.057	.040	114
1967	50 4.30N	64 8.80W	76 M.	15	.806	.049	302	.360	.053	93	.044	.023	90

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

JUNE continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-50 N 66 W-												
1973	50 8.60N	66 25.00W	5 M.	24	.468	.039	209	.112	.071	28	.082	.044	25
1973	50 11.10N	66 22.10W	5 M.	30	.868	.040	258	.243	.049	111	.153	.021	111
	-51 N 56 W-												
1975	51 25.60N	56 35.50W	13 M.	22	1.401	.156	44	.512	.100	62	.172	.033	64
1975	51 25.60N	56 35.50W	20 M.	22	1.411	.130	47	.497	.101	61	.160	.030	62

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

JULY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—45 N 61 W—												
1975	45 56.20N	61 39.40W	8 M.	16	.315	.086	100	.103	.072	339	.042	.025	128
1975	45 56.20N	61 39.40W	20 M.	16	.317	.050	129	.117	.086	5	.055	.029	80
1975	45 56.20N	61 39.40W	30 M.	16	.293	.011	33	.108	.065	21	.051	.018	36
1974	45 56.25N	61 39.56W	8 M.	31	.368	.057	101	.080	.073	54	.067	.036	89
1975	45 56.40N	61 39.50W	8 M.	15	.581	.067	126	.157	.106	1	.088	.061	324
1975	45 56.40N	61 39.50W	20 M.	15	.480	.058	147	.175	.134	8	.096	.081	101
1975	45 56.40N	61 39.50W	30 M.	15	.601	.020	48	.159	.093	29	.114	.030	40
	—45 N 62 W—												
1968	45 46.50N	62 31.40W	6 M.	22	.533	.072	303	.204	.091	80	.056	.036	63
1968	45 46.50N	62 31.40W	12 M.	22	.482	.049	270	.207	.078	81	.052	.034	29
1968	45 46.50N	62 31.40W	17 M.	19	.324	.020	227	.136	.066	98	.021	.017	22
	—46 N 62 W—												
1983	46 44.16N	62 30.60W	20 M.	31	.423	.070	92	.160	.131	82	.159	.130	82
1984	46 44.16N	62 30.60W	20 M.	31	.258	.013	181	.103	.053	95	.103	.051	95
1983	46 44.16N	62 30.60W	37 M.	31	.354	.004	56	.114	.066	101	.041	.027	74
1983	46 44.16N	62 30.60W	48 M.	31	.267	.033	354	.089	.044	120	.023	.017	10
	—46 N 64 W—												
1983	46 57.60N	64 49.20W	7 M.	31	1.089	.051	37	.252	.148	29	.131	.076	37
1983	46 57.62N	64 49.28W	6 M.	31	1.049	.091	54	.270	.131	40	.134	.064	46
	—47 N 59 W—												
1980	47 44.87N	59 35.96W	250 M.	31	.364	.051	346	.105	.037	335	.025	.015	325
1979	47 44.87N	59 35.96W	300 M.	31	.430	.068	338	.106	.031	344	.031	.014	346
	—47 N 60 W—												
1967	47 4.60N	60 17.40W	17 M.	31	.917	.277	112	.249	.170	134	.153	.095	123
1967	47 4.60N	60 17.40W	72 M.	15	.499	.082	110	.182	.076	107	.055	.034	79
1979	47 28.90N	60 17.82W	300 M.	29	.367	.111	127	.117	.034	121	.034	.009	127

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS JULY continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 62 W-												
1967	47 25.80N	62 54.00W	13 M.	25	.450	.068	357	.147	.104	111	.041	.028	101
	-47 N 65 W-												
1964	47 54.38N	65 49.67W	3 M.	17	.277	.053	83	.059	.019	81	.024	.007	85
1964	47 54.38N	65 49.67W	5 M.	20	.641	.095	91	.225	.058	112	.143	.036	112
1964	47 54.38N	65 49.67W	15 M.	19	.422	.056	100	.147	.035	97	.065	.023	90
1964	47 54.47N	65 50.14W	3 M.	18	.424	.044	334	.090	.016	336	.049	.007	335
	-48 N 61 W-												
1967	48 22.20N	61 59.90W	15 M.	22	.484	.065	92	.184	.135	104	.055	.037	24
1967	48 22.20N	61 59.90W	77 M.	24	.409	.081	79	.141	.079	97	.076	.036	329
	-48 N 62 W-												
1980	48 28.30N	62 43.20W	250 M.	31	.281	.006	186	.106	.024	101	.027	.013	106
1980	48 53.20N	62 34.60W	250 M.	31	.332	.028	236	.130	.038	102	.046	.021	113
1979	48 53.20N	62 34.60W	250 M.	31	.313	.007	66	.119	.039	108	.036	.017	316
	-48 N 64 W-												
1978	48 58.60N	64 14.50W	24 M.	31	1.136	.184	149	.254	.083	321	.186	.048	325
1978	48 58.60N	64 14.50W	60 M.	31	.516	.082	303	.179	.042	132	.092	.019	321
1978	48 58.60N	64 14.50W	150 M.	31	.358	.038	319	.157	.030	316	.078	.007	134
	-48 N 67 W-												
1963	48 59.00N	67 10.00W	13 M.	23	1.367	.237	80	.285	.073	71	.219	.040	70
1963	48 59.00N	67 10.00W	75 M.	23	.536	.109	254	.197	.056	74	.137	.013	78
	-49 N 63 W-												
1967	49 20.40N	63 41.40W	11 M.	19	.798	.065	281	.264	.207	315	.148	.103	322
1967	49 20.40N	63 41.40W	73 M.	19	.567	.075	274	.192	.057	125	.057	.023	121
1967	49 20.40N	63 41.40W	209 M.	19	.363	.020	301	.203	.058	102	.019	.013	89

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

JULY continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 65 W-												
1978	49 17.49N	65 52.69W	20 M.	31	1.206	.651	86	.185	.086	90	.135	.056	93
1978	49 17.49N	65 52.69W	60 M.	31	.550	.157	84	.135	.051	85	.091	.034	86
1978	49 17.49N	65 52.69W	150 M.	31	.317	.011	49	.114	.043	72	.048	.026	68
	-49 N 66 W-												
1978	49 11.96N	66 10.76W	24 M.	31	.759	.193	87	.162	.036	87	.111	.013	87
1978	49 11.96N	66 10.76W	40 M.	31	.414	.070	79	.120	.023	78	.073	.007	79
1978	49 13.80N	66 20.37W	60 M.	31	.501	.082	81	.138	.046	72	.080	.027	76
1978	49 14.30N	66 7.46W	40 M.	31	.738	.244	80	.190	.050	81	.147	.023	82
1978	49 15.20N	66 12.56W	60 M.	31	.423	.085	75	.126	.040	82	.087	.028	87
1978	49 16.08N	66 7.94W	100 M.	31	.564	.065	82	.187	.057	78	.104	.035	82
1978	49 16.08N	66 7.94W	150 M.	31	.353	.023	84	.113	.037	72	.038	.012	76
1967	49 16.40N	66 11.80W	13 M.	18	1.164	.529	76	.191	.084	71	.108	.048	59
1967	49 16.40N	66 11.80W	75 M.	18	.519	.113	81	.153	.056	66	.112	.047	63
1967	49 16.40N	66 11.80W	213 M.	18	.259	.041	56	.091	.055	79	.028	.008	66
1978	49 17.68N	66 8.14W	150 M.	31	.375	.049	78	.109	.035	77	.038	.013	79
1978	49 19.55N	66 9.25W	150 M.	31	.341	.055	75	.112	.041	74	.044	.022	71
1978	49 22.93N	66 15.91W	150 M.	31	.251	.028	74	.089	.042	73	.030	.030	347
1979	49 51.75N	66 10.20W	60 M.	31	.355	.101	256	.086	.056	105	.051	.034	318
1979	49 51.75N	66 10.20W	150 M.	31	.218	.044	252	.072	.038	80	.026	.024	31
1979	49 51.80N	66 18.70W	25 M.	31	.462	.143	251	.099	.088	106	.063	.049	344
	-49 N 67 W-												
1967	49 .00N	67 11.00W	11 M.	18	1.007	.239	85	.269	.087	60	.154	.052	57
1967	49 .00N	67 11.00W	73 M.	18	.509	.120	240	.156	.042	63	.088	.018	67
1967	49 .00N	67 11.00W	144 M.	18	.238	.014	88	.112	.048	57	.030	.013	46
1963	49 3.00N	67 13.00W	13 M.	19	.661	.249	144	.254	.099	52	.223	.078	48
1963	49 3.00N	67 13.00W	225 M.	24	.453	.032	71	.147	.032	71	.071	.013	74
	-50 N 62 W-												
1977	50 14.16N	62 50.25W	7 M.	10	.358	.033	110	.135	.078	112	.068	.008	94
	-50 N 63 W-												
1982	50 12.00N	63 36.00W	6 M.	23	.218	.036	215	.080	.038	26	.012	.012	317
1982	50 16.00N	63 56.00W	4 M.	31	.662	.102	36	.149	.033	32	.065	.010	31

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

JULY continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-50 N 64 W-												
1983	50 .00N	64 .00W	0 M.	19	.190	.035	153	.079	.032	319	.013	.006	330
1967	50 4.30N	64 8.80W	13 M.	18	.987	.018	253	.402	.156	91	.098	.049	121
	-51 N 55 W-												
1983	51 51.00N	55 54.60W	15 M.	17	1.045	.256	74	.379	.154	56	.136	.052	70
1983	51 51.00N	55 54.60W	54 M.	17	.674	.082	253	.227	.057	54	.049	.034	57
	-51 N 56 W-												
1983	51 42.70N	56 12.55W	14 M.	17	1.057	.374	68	.360	.096	63	.104	.043	74

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

AUGUST

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-45 N 61 W-												
1974	45 54.10N	61 47.40W	8 M.	28	.428	.135	44	.111	.100	20	.078	.060	345
1974	45 55.10N	61 44.00W	20 M.	28	.473	.107	70	.126	.107	38	.078	.063	49
1974	45 55.10N	61 44.00W	30 M.	13	.206	.017	334	.050	.046	339	.034	.017	129
1974	45 56.25N	61 39.56W	8 M.	28	.493	.121	137	.135	.082	11	.083	.045	22
1974	45 56.25N	61 39.56W	20 M.	28	.308	.128	123	.056	.004	122	.051	.002	122
1974	45 56.25N	61 39.56W	30 M.	28	.418	.064	44	.125	.071	29	.086	.029	27
1975	45 56.40N	61 39.50W	8 M.	11	.414	.131	73	.139	.103	343	.088	.054	107
1975	45 56.40N	61 39.50W	8 M.	20	.382	.086	111	.124	.072	30	.093	.038	41
1975	45 56.40N	61 39.50W	20 M.	11	.442	.138	83	.160	.147	12	.148	.080	87
1975	45 56.40N	61 39.50W	20 M.	20	.479	.047	123	.150	.114	19	.092	.064	41
1975	45 56.40N	61 39.50W	30 M.	20	.431	.036	41	.143	.069	24	.096	.026	26
1975	45 56.40N	61 39.50W	30 M.	11	.481	.085	53	.177	.113	32	.141	.048	56
1974	45 56.90N	61 37.20W	30 M.	28	.270	.044	341	.087	.027	349	.056	.009	351
	-46 N 62 W-												
1984	46 44.16N	62 30.60W	20 M.	31	.329	.047	293	.135	.080	104	.135	.079	104
1983	46 44.16N	62 30.60W	20 M.	31	.388	.064	101	.142	.123	102	.141	.121	101
1983	46 44.16N	62 30.60W	37 M.	31	.489	.020	54	.145	.085	106	.076	.055	103
1983	46 44.16N	62 30.60W	48 M.	31	.292	.010	35	.085	.050	123	.044	.033	53
	-46 N 64 W-												
1983	46 57.60N	64 49.20W	7 M.	31	.693	.065	27	.241	.141	22	.087	.068	324
1983	46 57.62N	64 49.28W	6 M.	31	.673	.081	60	.240	.133	34	.086	.070	115
	-47 N 59 W-												
1966	47 14.60N	59 59.80W	9 M.	20	.704	.185	136	.240	.196	349	.154	.067	5
1966	47 14.60N	59 59.80W	72 M.	20	.437	.119	84	.156	.091	321	.061	.051	11
1966	47 19.50N	59 50.90W	13 M.	20	.619	.152	117	.238	.191	1	.184	.062	18
1966	47 19.50N	59 50.90W	75 M.	20	.423	.117	80	.151	.073	318	.064	.037	9
1966	47 19.50N	59 50.90W	325 M.	20	.324	.017	104	.122	.039	320	.026	.019	346
1966	47 24.40N	59 42.00W	13 M.	20	.628	.102	114	.279	.257	321	.175	.055	24
1966	47 24.40N	59 42.00W	75 M.	20	.418	.093	45	.164	.076	317	.067	.043	85
1966	47 24.40N	59 42.00W	325 M.	20	.346	.020	2	.111	.025	318	.024	.011	321
1966	47 34.10N	59 24.30W	13 M.	21	.835	.201	353	.343	.273	339	.245	.181	345
1966	47 34.10N	59 24.30W	65 M.	18	.513	.036	308	.183	.092	318	.079	.036	88
1966	47 34.10N	59 24.30W	330 M.	21	.481	.033	325	.175	.055	315	.041	.015	134

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

AUGUST continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 59 W-												
1980	47 44.87N	59 35.96W	250 M.	31	.328	.063	343	.101	.031	332	.021	.012	333
1979	47 44.87N	59 35.96W	300 M.	31	.372	.052	343	.108	.031	338	.042	.017	337
	-47 N 60 W-												
1967	47 4.50N	60 17.20W	72 M.	31	.501	.027	114	.188	.072	114	.076	.037	120
1967	47 4.60N	60 17.40W	17 M.	31	.998	.390	119	.255	.137	338	.153	.068	328
1966	47 4.90N	60 17.60W	13 M.	20	1.135	.482	118	.295	.173	134	.193	.088	133
1966	47 4.90N	60 17.60W	75 M.	20	.844	.014	143	.225	.088	113	.132	.048	123
	-47 N 61 W-												
1974	47 30.00N	61 46.00W	6 M.	11	.461	.076	19	.128	.041	30	.097	.024	22
	-47 N 65 W-												
1964	47 54.38N	65 49.67W	3 M.	20	.322	.041	331	.087	.015	335	.045	.004	335
1964	47 54.47N	65 50.14W	3 M.	21	.262	.052	78	.064	.021	76	.025	.010	79
1964	47 54.51N	65 50.65W	3 M.	16	.345	.040	96	.080	.012	104	.035	.006	105
	-48 N 62 W-												
1980	48 28.30N	62 43.20W	250 M.	31	.323	.015	309	.124	.033	99	.050	.022	106
1979	48 53.20N	62 34.60W	250 M.	31	.343	.026	90	.128	.050	102	.031	.022	69
1980	48 53.20N	62 34.60W	250 M.	31	.299	.026	160	.120	.040	104	.028	.018	356
	-48 N 64 W-												
1978	48 58.60N	64 14.50W	24 M.	31	.755	.103	165	.259	.097	134	.190	.047	133
1978	48 58.60N	64 14.50W	60 M.	31	.445	.107	307	.170	.043	134	.058	.015	131
1978	48 58.60N	64 14.50W	150 M.	31	.404	.014	319	.157	.031	316	.068	.010	132
	-48 N 65 W-												
1964	48 .40N	65 45.50W	5 M.	27	.586	.098	160	.154	.101	123	.116	.062	320
1964	48 5.20N	65 41.80W	5 M.	17	.605	.056	290	.145	.038	111	.115	.018	111

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

AUGUST continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 65 W-												
1978	49 17.49N	65 52.69W	20 M.	31	1.139	.549	84	.223	.092	81	.187	.061	80
1978	49 17.49N	65 52.69W	60 M.	31	.583	.081	69	.164	.058	89	.121	.037	90
1978	49 17.49N	65 52.69W	150 M.	31	.400	.021	81	.124	.035	78	.051	.012	80
	-49 N 66 W-												
1978	49 11.96N	66 10.76W	24 M.	31	.697	.167	87	.158	.038	89	.098	.013	88
1978	49 11.96N	66 10.76W	40 M.	31	.495	.055	78	.114	.022	80	.061	.006	82
1978	49 13.80N	66 20.37W	60 M.	31	.545	.098	78	.182	.052	71	.142	.032	70
1978	49 14.30N	66 7.46W	40 M.	31	.733	.204	80	.191	.053	81	.149	.029	83
1978	49 15.20N	66 12.56W	60 M.	31	.495	.116	78	.145	.047	78	.100	.031	78
1978	49 16.08N	66 7.94W	100 M.	31	.576	.094	80	.197	.067	77	.103	.034	82
1978	49 16.08N	66 7.94W	150 M.	31	.371	.042	86	.115	.036	75	.042	.010	79
1978	49 17.68N	66 8.14W	150 M.	31	.340	.061	81	.110	.033	74	.036	.015	85
1978	49 19.55N	66 9.25W	150 M.	31	.375	.076	78	.110	.044	76	.042	.023	92
1978	49 22.93N	66 15.91W	150 M.	31	.360	.057	100	.094	.035	78	.038	.026	91
1979	49 51.75N	66 10.20W	60 M.	31	.491	.072	242	.106	.083	321	.074	.048	335
1979	49 51.75N	66 10.20W	100 M.	31	.358	.094	243	.131	.060	57	.117	.047	52
1979	49 51.75N	66 10.20W	150 M.	31	.310	.037	269	.078	.050	77	.042	.019	26
1979	49 51.80N	66 18.70W	25 M.	31	.574	.139	247	.130	.115	56	.087	.076	11
	-50 N 63 W-												
1982	50 12.00N	63 36.00W	6 M.	31	.198	.032	216	.070	.043	12	.017	.011	76
	-51 N 56 W-												
1963	51 21.00N	56 43.00W	13 M.	31	1.387	.059	62	.500	.066	60	.178	.025	59
1980	51 21.50N	56 43.60W	11 M.	31	1.490	.067	69	.533	.102	50	.211	.034	56
1980	51 21.50N	56 43.60W	46 M.	31	1.147	.029	116	.427	.079	59	.104	.025	59
1963	51 22.00N	56 43.00W	13 M.	31	1.147	.109	65	.484	.079	58	.211	.039	55
1963	51 22.00N	56 43.00W	50 M.	14	.740	.014	95	.358	.064	64	.040	.019	51
1980	51 22.15N	56 44.40W	20 M.	31	1.617	.031	58	.470	.084	57	.209	.028	59
1980	51 22.15N	56 44.40W	50 M.	31	1.289	.055	222	.426	.064	59	.139	.020	56
1980	51 23.70N	56 46.40W	8 M.	31	1.932	.234	238	.571	.154	53	.296	.066	50
1980	51 23.70N	56 46.40W	43 M.	31	1.383	.177	231	.439	.083	48	.137	.038	51
1963	51 24.00N	56 47.00W	13 M.	24	1.813	.243	60	.592	.112	58	.348	.042	57
1963	51 24.00N	56 47.00W	50 M.	15	1.445	.115	240	.471	.093	55	.098	.031	46
1963	51 25.00N	56 49.00W	13 M.	13	2.255	.050	79	.793	.167	50	.628	.090	47

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — AUGUST continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
-51 N 56 W-													
1963	51 25.00N	56 49.00W	50 M.	14	.895	.142	223	.359	.150	56	.185	.060	53
1980	51 26.80N	56 50.25W	12 M.	31	2.397	.453	222	.756	.148	45	.428	.059	44
1980	51 26.80N	56 50.25W	47 M.	31	1.898	.205	217	.607	.102	56	.203	.039	49
1963	51 27.00N	56 50.00W	13 M.	14	2.548	.283	219	.803	.194	57	.254	.066	49
1963	51 27.00N	56 50.00W	50 M.	14	.831	.054	259	.412	.091	56	.174	.044	53
1963	51 27.00N	56 51.00W	13 M.	21	2.549	.159	217	.885	.143	67	.432	.057	69
1963	51 27.00N	56 51.00W	50 M.	31	1.493	.194	228	.581	.068	56	.168	.023	58
1980	51 27.60N	56 51.00W	15 M.	31	1.773	.174	271	.378	.061	97	.203	.027	98

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — SEPTEMBER

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—45 N 61 W—												
1974	45 52.90N	61 51.80W	8 M.	30	.359	.044	13	.109	.077	316	.091	.054	324
1974	45 52.90N	61 51.80W	20 M.	30	.424	.029	149	.131	.080	128	.102	.040	315
1974	45 52.90N	61 51.80W	30 M.	30	.200	.010	112	.063	.036	124	.031	.013	109
1975	45 53.05N	61 51.50W	5 M.	25	.408	.023	37	.088	.059	355	.082	.044	355
1975	45 53.05N	61 51.50W	8 M.	25	.390	.035	9	.104	.080	339	.094	.057	347
1975	45 53.05N	61 51.50W	20 M.	25	.346	.033	3	.111	.085	127	.095	.046	317
1975	45 53.05N	61 51.50W	30 M.	25	.295	.045	89	.074	.060	336	.036	.028	344
1974	45 56.25N	61 39.56W	8 M.	20	.359	.034	175	.112	.078	29	.083	.049	56
1974	45 56.25N	61 39.56W	20 M.	30	.483	.017	209	.153	.129	23	.104	.071	86
1974	45 56.25N	61 39.56W	30 M.	30	.383	.013	39	.139	.080	31	.108	.036	33
1975	45 56.40N	61 39.50W	8 M.	25	.322	.070	119	.141	.094	9	.071	.064	49
1975	45 56.40N	61 39.50W	20 M.	25	.428	.067	98	.149	.108	8	.093	.065	57
1975	45 56.40N	61 39.50W	30 M.	25	.365	.044	47	.149	.104	24	.096	.039	43
	—46 N 62 W—												
1983	46 44.16N	62 30.60W	20 M.	30	.333	.025	117	.116	.071	111	.116	.070	111
1984	46 44.16N	62 30.60W	20 M.	13	.392	.049	247	.168	.060	112	.164	.064	110
	—46 N 64 W—												
1970	46 24.40N	64 16.40W	6 M.	30	.771	.010	193	.329	.040	337	.061	.014	342
1970	46 27.80N	64 13.00W	6 M.	30	.591	.017	171	.262	.030	340	.052	.014	355
1983	46 57.60N	64 49.20W	7 M.	27	.854	.072	26	.249	.119	38	.070	.057	12
1983	46 57.62N	64 49.28W	6 M.	27	.746	.105	56	.211	.092	51	.091	.046	71
	—47 N 59 W—												
1980	47 44.87N	59 35.96W	250 M.	30	.347	.030	341	.103	.049	328	.025	.012	338
1979	47 44.87N	59 35.96W	300 M.	30	.365	.041	339	.099	.039	336	.040	.013	344
	—47 N 61 W—												
1982	47 24.00N	61 52.00W	3 M.	22	.249	.028	269	.090	.075	73	.082	.033	50
	—47 N 62 W—												
1983	47 .00N	62 .00W	5 M.	30	.195	.012	267	.077	.032	327	.031	.018	317
1983	47 .00N	62 .00W	5 M.	30	.172	.018	284	.076	.041	95	.039	.019	321

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS SEPTEMBER continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 64 W-												
1973	47 8.33N	64 50.79W	8 M.	24	.428	.031	345	.139	.078	330	.090	.035	333
1973	47 8.33N	64 50.79W	12 M.	24	.341	.015	83	.116	.060	328	.080	.028	325
1973	47 9.85N	64 57.65W	8 M.	23	.384	.037	234	.112	.086	316	.075	.030	6
1973	47 10.03N	64 49.29W	18 M.	24	.308	.025	302	.094	.066	134	.076	.027	135
1973	47 13.20N	64 52.20W	8 M.	23	.595	.021	333	.084	.081	328	.064	.057	75
1973	47 13.20N	64 52.20W	17 M.	12	.191	.009	246	.067	.053	102	.042	.025	126
1973	47 14.04N	64 55.55W	8 M.	23	.402	.046	31	.133	.087	68	.110	.055	51
1973	47 14.04N	64 55.55W	13 M.	23	.288	.035	358	.086	.072	67	.066	.046	51
1973	47 14.60N	64 57.81W	8 M.	23	.305	.040	12	.105	.066	68	.075	.044	62
	-48 N 62 W-												
1980	48 28.30N	62 43.28W	250 M.	30	.378	.007	57	.126	.045	104	.055	.028	101
1979	48 53.20N	62 34.60W	250 M.	30	.362	.015	7	.134	.040	98	.030	.014	101
1980	48 53.20N	62 34.60W	250 M.	30	.365	.013	234	.140	.060	105	.044	.026	315
	-48 N 64 W-												
1978	48 58.60N	64 14.50W	24 M.	27	1.321	.234	140	.379	.104	319	.355	.076	320
1978	48 58.60N	64 14.50W	60 M.	27	.865	.050	135	.221	.064	316	.142	.030	133
1978	48 58.60N	64 14.50W	150 M.	28	.497	.032	123	.159	.035	316	.069	.014	135
	-49 N 64 W-												
1969	49 1.80N	64 11.30W	15 M.	11	.808	.185	142	.229	.136	321	.169	.067	356
	-49 N 65 W-												
1978	49 17.49N	65 52.69W	20 M.	25	1.359	.727	87	.162	.086	91	.115	.043	99
1978	49 17.49N	65 52.69W	60 M.	25	.564	.253	83	.146	.053	82	.075	.026	72
1978	49 17.49N	65 52.69W	150 M.	25	.382	.078	83	.136	.039	77	.057	.022	77
	-49 N 66 W-												
1978	49 11.96N	66 10.76W	24 M.	23	1.191	.281	86	.196	.052	86	.128	.021	85
1978	49 11.96N	66 10.76W	40 M.	24	.444	.108	78	.108	.023	76	.055	.007	76
1978	49 13.80N	66 20.37W	60 M.	25	.646	.233	75	.154	.054	72	.094	.032	73
1978	49 14.30N	66 7.46W	40 M.	24	.810	.343	82	.186	.043	82	.100	.020	84
1978	49 15.20N	66 12.56W	60 M.	24	.577	.215	72	.141	.053	77	.098	.030	83

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS SEPTEMBER continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 66 W-												
1978	49 16.00N	66 7.94W	100 M.	23	.713	.192	78	.235	.067	81	.146	.041	84
1978	49 16.00N	66 7.94W	150 M.	23	.377	.065	84	.138	.039	76	.076	.018	82
1978	49 17.60N	66 8.14W	150 M.	23	.347	.085	80	.136	.041	78	.075	.013	83
1978	49 19.55N	66 9.25W	150 M.	23	.365	.084	76	.135	.052	78	.061	.022	88
1978	49 22.93N	66 15.91W	150 M.	30	.402	.028	73	.095	.045	77	.043	.028	100
1979	49 51.75N	66 10.20W	60 M.	27	.317	.053	276	.080	.045	104	.026	.024	75
1979	49 51.75N	66 10.20W	100 M.	29	.327	.069	260	.081	.040	78	.033	.023	104
1979	49 51.75N	66 10.20W	150 M.	28	.198	.026	271	.073	.035	83	.027	.019	112
1979	49 51.80N	66 18.70W	25 M.	23	.304	.176	252	.186	.155	340	.129	.063	329
	-50 N 58 W-												
1976	50 51.40N	58 57.10W	12 M.	28	.309	.019	187	.059	.042	346	.048	.028	344
	-51 N 56 W-												
1963	51 21.00N	56 43.00W	13 M.	20	1.238	.080	65	.582	.080	62	.215	.026	62
1980	51 21.50N	56 43.60W	11 M.	30	1.509	.092	90	.560	.107	50	.296	.058	53
1980	51 21.50N	56 43.60W	46 M.	30	1.158	.072	65	.450	.105	60	.146	.048	56
1963	51 22.00N	56 43.00W	13 M.	19	1.016	.119	70	.506	.072	56	.235	.031	56
1963	51 22.00N	56 43.00W	50 M.	11	.917	.005	161	.370	.050	68	.094	.013	67
1980	51 22.15N	56 44.40W	20 M.	30	1.684	.073	66	.544	.080	55	.335	.034	56
1980	51 22.15N	56 44.40W	50 M.	30	1.290	.021	224	.447	.084	60	.185	.026	59
1963	51 23.00N	56 45.00W	13 M.	10	.770	.109	247	.365	.076	68	.166	.022	61
1963	51 23.00N	56 45.00W	50 M.	11	.361	.063	274	.153	.060	91	.055	.014	96
1980	51 23.70N	56 46.40W	8 M.	30	1.754	.048	236	.623	.130	55	.397	.048	55
1980	51 23.70N	56 46.40W	43 M.	30	1.454	.178	236	.477	.109	49	.224	.052	52
1963	51 25.00N	56 49.00W	13 M.	19	1.836	.195	64	.727	.162	46	.399	.067	43
1980	51 26.80N	56 50.25W	12 M.	22	2.422	.432	222	.713	.134	44	.400	.051	48
1980	51 26.80N	56 50.25W	47 M.	30	1.767	.280	223	.603	.109	57	.251	.046	54
1963	51 27.00N	56 50.00W	50 M.	12	.898	.086	226	.360	.139	49	.178	.070	42
1963	51 27.00N	56 51.00W	13 M.	12	2.141	.254	235	.883	.138	68	.506	.043	68
1963	51 27.00N	56 51.00W	50 M.	20	1.511	.148	231	.692	.090	58	.190	.037	61
1980	51 27.60N	56 51.00W	15 M.	30	1.808	.171	272	.390	.063	96	.213	.028	98
	-51 N 57 W-												
1976	51 19.97N	57 49.90W	0 M.	29	.333	.047	25	.099	.067	343	.056	.029	7

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — OCTOBER

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-45 N 61 W-												
1974	45 52.90N	61 51.80W	8 M.	31	.260	.018	353	.054	.024	337	.051	.016	339
1974	45 52.90N	61 51.80W	20 M.	31	.305	.007	229	.057	.044	316	.038	.022	318
1974	45 52.90N	61 51.80W	30 M.	31	.488	.009	73	.090	.057	122	.069	.039	117
	-46 N 60 W-												
1981	46 56.20N	60 23.20W	35 M.	18	.374	.040	91	.082	.067	126	.051	.034	329
1981	46 56.20N	60 26.70W	10 M.	10	.308	.027	179	.109	.038	337	.059	.019	341
	-46 N 61 W-												
1970	46 57.90N	61 59.70W	49 M.	10	.116	.017	133	.045	.019	120	.016	.010	338
	-46 N 62 W-												
1970	46 34.40N	62 4.30W	43 M.	10	.440	.051	88	.133	.088	119	.037	.036	48
1983	46 44.16N	62 30.60W	20 M.	31	.392	.055	163	.138	.078	99	.137	.076	99
1970	46 47.50N	62 2.20W	17 M.	10	.456	.158	93	.138	.094	114	.083	.040	356
	-46 N 64 W-												
1983	46 57.60N	64 49.20W	7 M.	28	.363	.003	145	.110	.049	21	.085	.028	18
1983	46 57.62N	64 49.28W	6 M.	18	.351	.008	176	.103	.046	29	.035	.025	97
	-47 N 59 W-												
1980	47 44.87N	59 35.96W	250 M.	31	.278	.013	356	.094	.039	332	.026	.014	354
1979	47 44.87N	59 35.96W	300 M.	31	.268	.010	316	.106	.042	333	.053	.018	340
	-47 N 60 W-												
1983	47 10.99N	60 14.90W	173 M.	29	.627	.024	347	.151	.085	316	.052	.042	128
	-47 N 61 W-												
1982	47 24.00N	61 52.00W	3 M.	21	.231	.012	87	.076	.052	22	.066	.022	17

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 62 W-												
1983	47 .00N	62 .00W	5 M.	31	.170	.012	294	.075	.035	333	.037	.026	327
	-47 N 64 W-												
1973	47 8.33N	64 50.79W	8 M.	19	.428	.015	138	.174	.094	331	.137	.045	335
1973	47 8.33N	64 50.79W	12 M.	19	.316	.019	108	.139	.077	335	.112	.037	330
1973	47 9.85N	64 57.65W	8 M.	13	.488	.098	208	.152	.131	14	.119	.054	8
1973	47 10.03N	64 49.29W	18 M.	14	.236	.024	273	.105	.071	324	.082	.033	133
1973	47 14.04N	64 55.55W	8 M.	19	.430	.050	39	.152	.080	79	.112	.041	78
1973	47 14.04N	64 55.55W	13 M.	19	.254	.044	357	.095	.074	60	.076	.049	55
1973	47 14.60N	64 57.81W	8 M.	13	.455	.051	279	.169	.086	69	.140	.057	69
	-48 N 62 W-												
1980	48 28.30N	62 43.28W	250 M.	28	.301	.003	178	.120	.036	103	.042	.025	95
1978	48 50.93N	62 17.72W	250 M.	31	.279	.004	28	.115	.039	65	.025	.022	33
1979	48 53.20N	62 34.60W	250 M.	31	.353	.029	287	.130	.040	100	.035	.018	114
1980	48 53.20N	62 34.60W	250 M.	31	.400	.037	227	.130	.036	110	.038	.016	129
	-49 N 64 W-												
1969	49 1.80N	64 11.30W	15 M.	21	1.401	.566	129	.291	.142	133	.225	.103	319
	-51 N 56 W-												
1980	51 21.50N	56 43.60W	11 M.	18	1.173	.099	54	.455	.093	49	.237	.041	54
1980	51 21.50N	56 43.60W	46 M.	18	1.007	.067	75	.407	.089	59	.158	.040	56
1980	51 22.15N	56 44.40W	20 M.	18	1.547	.119	63	.469	.072	56	.313	.032	58
1980	51 22.15N	56 44.40W	50 M.	18	1.175	.033	58	.418	.073	58	.223	.026	55
1980	51 23.70N	56 46.40W	8 M.	17	1.566	.043	60	.505	.108	51	.316	.057	57
1980	51 23.70N	56 46.40W	43 M.	17	1.211	.030	313	.456	.086	51	.242	.050	51
1980	51 26.80N	56 50.25W	47 M.	17	1.478	.090	215	.565	.102	55	.254	.041	48
1980	51 27.60N	56 51.00W	15 M.	17	1.485	.071	280	.353	.057	97	.172	.022	98

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — NOVEMBER

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-46 N 60 W-												
1981	46 56.20N	60 23.20W	35 M.	17	.311	.029	110	.082	.068	113	.048	.030	334
1981	46 56.20N	60 26.70W	10 M.	24	.465	.017	164	.137	.066	344	.087	.026	343
	-46 N 61 W-												
1970	46 57.90N	61 59.70W	49 M.	16	.141	.003	113	.058	.025	120	.024	.016	116
	-46 N 62 W-												
1970	46 34.40N	62 4.30W	43 M.	16	.383	.046	85	.149	.084	109	.054	.037	71
1983	46 44.16N	62 30.60W	20 M.	30	.393	.032	164	.161	.107	111	.160	.106	112
1970	46 47.50N	62 2.20W	17 M.	16	.626	.189	99	.181	.086	103	.108	.059	102
	-47 N 59 W-												
1978	47 44.83N	59 35.77W	300 M.	13	.346	.019	344	.105	.040	344	.041	.022	331
1980	47 44.87N	59 35.96W	250 M.	12	.271	.018	335	.085	.037	337	.029	.014	339
	-47 N 60 W-												
1983	47 10.99N	60 14.90W	173 M.	30	.666	.035	13	.194	.133	133	.099	.090	328
	-47 N 61 W-												
1982	47 25.00N	61 51.50W	3 M.	15	.269	.050	241	.117	.063	48	.044	.032	22
1974	47 30.00N	61 46.00W	6 M.	20	.662	.051	8	.270	.072	38	.271	.047	38
	-47 N 62 W-												
1983	47 .00N	62 .00W	5 M.	15	.207	.010	293	.077	.039	332	.031	.024	97
1970	47 2.70N	62 55.40W	19 M.	16	.360	.135	169	.114	.081	106	.061	.041	59
1970	47 2.70N	62 55.40W	29 M.	16	.352	.140	166	.120	.080	107	.051	.033	63
1970	47 2.70N	62 55.40W	54 M.	16	.228	.045	137	.085	.053	126	.041	.027	49
	-47 N 63 W-												
1970	47 35.30N	63 36.60W	16 M.	16	.291	.033	174	.095	.075	327	.069	.061	78
1970	47 35.30N	63 36.60W	25 M.	16	.482	.088	162	.140	.115	342	.112	.096	349
1970	47 35.30N	63 36.60W	69 M.	16	.238	.013	193	.083	.055	9	.048	.025	39

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS

NOVEMBER continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	—48 N 61 W—												
1970	48 3.00N	61 32.30W	15 M.	15	.518	.071	124	.182	.113	130	.093	.049	320
	—48 N 62 W—												
1970	48 10.00N	62 19.60W	26 M.	15	.630	.068	253	.202	.142	105	.102	.081	96
1978	48 50.93N	62 17.72W	250 M.	30	.299	.018	286	.108	.036	64	.032	.019	110
1979	48 53.20N	62 34.60W	250 M.	30	.369	.040	284	.130	.047	98	.051	.030	124
1980	48 53.20N	62 34.60W	250 M.	11	.343	.025	82	.118	.040	109	.071	.019	108
	—48 N 63 W—												
1970	48 26.10N	63 32.70W	21 M.	14	.460	.123	147	.161	.089	109	.132	.057	114
1970	48 26.10N	63 32.70W	81 M.	14	.375	.055	72	.146	.079	122	.058	.035	33
1970	48 26.99N	63 47.80W	15 M.	14	.864	.344	173	.277	.174	94	.238	.144	90
1970	48 26.99N	63 47.80W	125 M.	11	.376	.028	138	.129	.070	73	.085	.031	77
	—48 N 64 W—												
1970	48 27.58N	64 .59W	15 M.	15	.579	.063	190	.164	.096	24	.131	.067	31
1970	48 27.58N	64 .59W	75 M.	15	.405	.066	112	.155	.103	134	.097	.057	131
1970	48 27.58N	64 .59W	104 M.	15	.146	.011	174	.059	.032	130	.027	.013	93

GULF OF ST. LAWRENCE MONTHLY CURRENT STATISTICS — DECEMBER

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-46 N 62 W-												
1983	46 44.16N	62 30.60W	20 M.	31	.366	.044	329	.168	.074	93	.166	.071	93
	-47 N 59 W-												
1980	47 44.61N	59 37.32W	250 M.	28	.456	.034	344	.160	.071	339	.072	.035	340
1978	47 44.83N	59 35.77W	300 M.	31	.362	.040	352	.116	.045	343	.046	.025	349
	-47 N 60 W-												
1983	47 10.99N	60 14.90W	173 M.	26	.997	.075	338	.206	.148	319	.122	.089	342
	-47 N 61 W-												
1974	47 30.00N	61 46.00W	6 M.	18	.807	.041	246	.256	.076	42	.250	.043	41
	-48 N 62 W-												
1979	48 28.16N	62 43.32W	250 M.	23	.448	.032	112	.163	.033	109	.108	.016	112
1980	48 28.34N	62 43.50W	250 M.	29	.547	.059	284	.183	.051	105	.125	.036	111
1978	48 50.93N	62 17.72W	250 M.	31	.352	.010	102	.117	.042	57	.046	.020	65
1980	48 53.00N	62 36.31W	250 M.	29	.488	.062	289	.163	.055	101	.107	.030	103
1979	48 53.20N	62 34.90W	250 M.	23	.383	.020	260	.132	.050	99	.066	.021	102
1978	48 53.35N	62 35.03W	250 M.	31	.406	.008	5	.138	.048	100	.046	.013	104

CURRENT STATISTICS OF THE ST. LAWRENCE ESTUARY

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

JANUARY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1981	48 51.45N	68 12.73W	250 M.	31	.303	.025	347	.120	.033	67	.034	.024	73
	-48 N 69 W-												
1974	48 8.30N	69 34.00W	98 M.	19	.807	.096	161	.300	.103	7	.046	.023	30
1974	48 13.01N	69 17.15W	24 M.	19	1.105	.296	53	.274	.138	39	.120	.035	59
1974	48 15.70N	69 21.75W	305 M.	20	.510	.028	259	.252	.056	65	.035	.022	90
1974	48 23.85N	69 9.80W	297 M.	20	.312	.008	346	.129	.050	55	.054	.013	45

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — FEBRUARY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1981	48 51.45N	68 12.73W	250 M.	28	.230	.007	322	.038	.021	55	.019	.014	351
	-48 N 69 W-												
1974	48 8.30N	69 34.00W	98 M.	28	.825	.097	152	.317	.122	8	.032	.027	353
1974	48 13.01N	69 17.15W	24 M.	28	1.415	.274	55	.337	.162	37	.168	.032	43
1974	48 23.85N	69 9.80W	297 M.	28	.337	.028	228	.134	.053	58	.032	.012	42

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

MARCH

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1981	48 51.45N	68 12.73W	250 M.	31	.015	.003	23	.012	.007	66	.005	.004	125
	-48 N 69 W-												
1974	48 13.01N	69 17.15W	24 M.	31	1.320	.254	55	.321	.166	37	.156	.047	46

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — APRIL

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 70 W-												
1982	47 27.20N	70 8.40W	14 M.	17	1.821	.210	189	.884	.127	46	.060	.025	21
1982	47 27.20N	70 8.40W	19 M.	17	1.505	.195	224	.650	.075	42	.065	.024	38
1982	47 29.50N	70 12.30W	16 M.	17	2.687	.054	68	1.159	.144	33	.207	.039	36
	-48 N 69 W-												
1974	48 9.81N	69 31.00W	40 M.	24	1.505	.109	83	.461	.221	34	.095	.023	61
1974	48 9.81N	69 31.00W	60 M.	24	.980	.077	209	.310	.118	35	.078	.021	54
1974	48 9.81N	69 31.00W	80 M.	24	.728	.123	220	.249	.069	32	.053	.029	42
1982	48 12.70N	69 17.70W	20 M.	18	1.375	.223	60	.369	.163	46	.193	.036	55
1982	48 12.70N	69 17.70W	30 M.	18	1.382	.169	65	.337	.178	35	.165	.025	52
1982	48 12.70N	69 17.70W	40 M.	18	1.190	.155	56	.319	.178	13	.106	.026	42
1982	48 12.70N	69 17.70W	50 M.	18	1.003	.165	38	.287	.111	359	.074	.018	28
1982	48 16.50N	69 22.90W	20 M.	18	.595	.129	194	.233	.115	14	.070	.042	36
1982	48 16.50N	69 22.90W	30 M.	18	.594	.168	202	.180	.090	10	.050	.037	32
1974	48 17.46N	69 20.90W	22 M.	24	.563	.053	148	.209	.118	11	.076	.042	56
1974	48 17.46N	69 20.90W	50 M.	24	.597	.124	216	.150	.119	95	.080	.063	47
	-49 N 67 W-												
1982	49 10.90N	67 30.30W	20 M.	19	1.181	.453	57	.256	.108	68	.184	.080	76
1982	49 10.90N	67 30.30W	30 M.	19	.902	.274	63	.192	.085	78	.101	.058	88
1982	49 11.50N	67 39.10W	20 M.	19	.753	.265	260	.203	.090	75	.085	.041	71
1982	49 11.50N	67 39.10W	30 M.	19	.738	.260	260	.194	.087	75	.073	.040	71

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — MAY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
-47 N 70 W-													
1982	47 27.20N	70 8.40W	14 M.	31	1.958	.204	189	.905	.136	46	.054	.027	28
1982	47 27.20N	70 8.40W	19 M.	31	1.511	.180	227	.635	.073	43	.050	.027	36
1977	47 28.00N	70 5.90W	5 M.	29	1.761	.099	226	.921	.096	39	.051	.036	61
1977	47 28.00N	70 5.90W	15 M.	29	1.000	.057	126	.538	.072	38	.027	.018	341
1977	47 28.30N	70 6.80W	30 M.	29	1.112	.141	194	.561	.043	29	.000	.000	0
1982	47 29.50N	70 12.30W	16 M.	31	2.645	.112	46	1.134	.132	36	.094	.033	34
1977	47 30.07N	70 10.85W	30 M.	24	1.776	.195	116	.813	.118	27	.063	.042	17
1977	47 30.30N	70 11.60W	10 M.	23	2.066	.092	89	1.011	.129	30	.121	.025	25
1977	47 30.30N	70 11.60W	55 M.	20	1.069	.066	132	.541	.124	16	.040	.013	37
1977	47 33.80N	70 9.70W	30 M.	30	1.152	.180	264	.480	.123	30	.066	.016	37
1977	47 33.90N	70 1.10W	15 M.	29	1.818	.056	170	.795	.113	37	.055	.040	41
1977	47 33.90N	70 1.10W	40 M.	25	1.064	.172	188	.493	.072	13	.039	.015	12
1977	47 39.90N	70 1.20W	10 M.	30	1.558	.086	86	.708	.144	64	.089	.034	77
1977	47 39.90N	70 1.20W	30 M.	29	1.243	.042	203	.527	.128	44	.060	.030	61
-48 N 67 W-													
1979	48 54.50N	67 34.00W	18 M.	12	1.001	.153	68	.312	.108	69	.281	.071	71
1979	48 57.40N	67 35.80W	11 M.	12	.733	.016	323	.256	.166	61	.172	.131	62
1979	48 57.40N	67 35.80W	95 M.	12	.523	.152	275	.174	.056	72	.097	.018	73
1979	48 59.20N	67 54.00W	11 M.	11	.867	.140	312	.335	.195	78	.276	.087	91
-48 N 68 W-													
1969	48 35.30N	68 50.80W	13 M.	31	.842	.099	34	.268	.138	32	.068	.055	87
1969	48 35.30N	68 50.80W	18 M.	15	.712	.049	4	.262	.127	25	.073	.040	58
1969	48 35.30N	68 50.80W	250 M.	31	.294	.012	278	.126	.044	45	.034	.010	51
1969	48 44.00N	68 32.00W	13 M.	31	.815	.096	71	.196	.167	27	.127	.106	50
1969	48 44.00N	68 32.00W	18 M.	31	.678	.105	102	.216	.183	51	.138	.122	87
1969	48 49.00N	68 20.00W	13 M.	31	.616	.217	5	.160	.138	99	.119	.084	77
1969	48 49.00N	68 20.00W	18 M.	31	.851	.241	6	.205	.170	82	.147	.103	77
1979	48 51.06N	68 17.49W	28 M.	11	.443	.035	304	.167	.147	52	.092	.044	12
1979	48 51.15N	68 17.72W	250 M.	11	.243	.015	292	.126	.026	79	.019	.006	82
1969	48 54.00N	68 6.00W	13 M.	31	.845	.189	79	.217	.139	45	.129	.080	6
1969	48 54.00N	68 6.00W	18 M.	31	.950	.225	95	.291	.189	57	.173	.095	12
1969	48 54.00N	68 6.00W	250 M.	31	.309	.002	55	.134	.045	68	.028	.016	59
1979	48 56.80N	68 21.00W	12 M.	11	.590	.066	264	.206	.159	331	.192	.078	334

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
-48 N 69 W-													
1973	48 4.20N	69 28.00W	29 M.	17	1.399	.042	70	.757	.158	25	.100	.035	24
1973	48 4.20N	69 28.00W	84 M.	17	.990	.136	216	.512	.132	15	.047	.041	63
1973	48 7.45N	69 25.90W	18 M.	17	1.449	.236	53	.553	.315	46	.282	.120	43
1973	48 8.50N	69 34.18W	25 M.	18	1.249	.077	71	.461	.164	31	.110	.051	48
1973	48 8.50N	69 34.18W	50 M.	18	1.237	.071	32	.357	.100	13	.103	.030	3
1973	48 8.50N	69 34.18W	95 M.	18	.851	.100	124	.324	.096	8	.052	.023	319
1973	48 9.88N	69 32.90W	26 M.	18	.938	.090	187	.338	.176	23	.101	.051	54
1973	48 9.88N	69 32.90W	101 M.	11	.474	.061	240	.192	.049	33	.019	.017	77
1973	48 10.41N	69 32.10W	36 M.	17	1.048	.060	143	.310	.180	24	.097	.036	45
1973	48 11.00N	69 34.90W	108 M.	18	.350	.010	299	.120	.034	28	.028	.010	22
1973	48 11.35N	69 30.50W	150 M.	17	.506	.021	244	.201	.059	39	.021	.009	127
1973	48 12.00N	69 28.60W	200 M.	19	.604	.017	119	.223	.059	49	.030	.013	50
1973	48 12.00N	69 28.60W	245 M.	12	.471	.023	114	.205	.062	46	.023	.006	73
1982	48 12.70N	69 17.70W	20 M.	31	1.492	.247	56	.431	.174	47	.097	.033	64
1982	48 12.70N	69 17.70W	30 M.	31	1.599	.184	61	.431	.207	34	.098	.032	49
1982	48 12.70N	69 17.70W	40 M.	31	1.532	.179	47	.428	.189	20	.077	.027	35
1982	48 12.70N	69 17.70W	50 M.	31	1.165	.151	34	.375	.126	6	.050	.019	38
1973	48 13.30N	69 30.45W	22 M.	18	1.048	.177	238	.336	.112	62	.187	.034	58
1982	48 16.50N	69 22.90W	20 M.	31	.780	.073	194	.266	.132	19	.107	.050	32
1982	48 16.50N	69 22.90W	30 M.	31	.650	.074	206	.230	.100	11	.072	.036	12
1969	48 24.00N	69 8.00W	13 M.	30	.486	.028	182	.178	.121	86	.068	.044	8
1969	48 24.00N	69 8.00W	250 M.	31	.504	.026	259	.216	.053	49	.035	.014	51
1969	48 29.30N	69 1.00W	13 M.	31	.559	.041	283	.243	.104	43	.049	.037	67
1969	48 29.30N	69 1.00W	250 M.	31	.447	.009	168	.179	.046	49	.040	.014	49
-49 N 67 W-													
1979	49 4.70N	67 40.60W	18 M.	12	.722	.092	240	.247	.159	72	.200	.123	74
1979	49 4.70N	67 40.60W	250 M.	12	.354	.012	241	.129	.063	65	.025	.007	68
1979	49 10.20N	67 46.25W	12 M.	12	.983	.273	96	.290	.213	8	.280	.165	358
1979	49 10.20N	67 46.25W	182 M.	12	.329	.014	73	.123	.048	82	.025	.018	64
1979	49 10.80N	67 20.70W	8 M.	12	.986	.300	148	.296	.202	67	.251	.142	62
1982	49 10.90N	67 30.30W	20 M.	31	.910	.313	56	.250	.100	54	.207	.075	53
1982	49 10.90N	67 30.30W	30 M.	31	.815	.255	62	.208	.086	63	.159	.059	62
1982	49 11.50N	67 39.10W	20 M.	31	.839	.207	264	.251	.138	85	.186	.103	92
1982	49 11.50N	67 39.10W	30 M.	31	.892	.188	262	.227	.125	80	.151	.087	93
1979	49 13.50N	67 46.60W	9 M.	12	1.168	.487	93	.296	.223	325	.290	.130	336

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — JUNE

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 69 W-												
1977	47 50.20N	69 46.60W	10 M.	21	1.291	.321	32	.477	.107	34	.091	.029	37
1977	47 50.20N	69 46.60W	20 M.	22	1.489	.125	10	.713	.089	34	.100	.023	33
1977	47 50.20N	69 46.60W	30 M.	22	1.491	.038	259	.832	.085	32	.079	.026	29
1977	47 51.20N	69 50.00W	10 M.	22	1.036	.191	17	.452	.084	27	.063	.024	30
1977	47 51.20N	69 50.00W	30 M.	22	1.850	.210	207	.771	.116	24	.120	.018	25
1977	47 56.14N	69 35.57W	5 M.	22	1.548	.132	18	.721	.109	40	.077	.028	47
1977	47 57.50N	69 41.10W	10 M.	22	2.321	.447	27	.998	.120	40	.054	.025	25
1977	47 57.80N	69 42.80W	10 M.	22	1.711	.170	338	.824	.121	37	.070	.043	65
1977	47 57.80N	69 42.80W	50 M.	18	1.169	.109	210	.612	.145	31	.056	.033	343
1977	47 58.50N	69 44.70W	10 M.	22	1.548	.330	31	.495	.108	34	.095	.031	37
1977	47 58.50N	69 44.70W	20 M.	22	2.052	.123	241	.842	.147	25	.069	.040	39
1977	47 58.50N	69 44.70W	50 M.	21	1.623	.233	215	.600	.093	27	.065	.027	29
1977	47 58.50N	69 44.70W	80 M.	22	1.037	.249	220	.317	.114	24	.040	.022	19
	-47 N 70 W-												
1982	47 27.20N	70 8.40W	14 M.	30	1.815	.213	192	.862	.116	45	.053	.024	27
1982	47 27.20N	70 8.40W	19 M.	30	1.381	.191	226	.622	.076	43	.044	.023	61
1982	47 29.50N	70 12.30W	16 M.	21	2.310	.067	82	1.047	.126	37	.074	.036	34
	-48 N 67 W-												
1979	48 54.50N	67 34.00W	18 M.	30	.851	.006	324	.237	.102	74	.190	.062	77
1978	48 57.00N	67 24.50W	24 M.	10	.623	.093	71	.255	.076	67	.075	.032	60
1978	48 57.00N	67 24.50W	60 M.	10	.486	.127	252	.203	.054	73	.111	.022	59
1978	48 57.00N	67 24.50W	150 M.	10	.537	.015	278	.183	.039	77	.081	.010	73
1979	48 57.40N	67 35.80W	11 M.	30	.703	.036	16	.200	.114	80	.172	.093	84
1979	48 57.40N	67 35.80W	95 M.	30	.457	.058	279	.169	.051	75	.108	.029	83
1979	48 59.20N	67 54.00W	11 M.	30	.788	.128	344	.279	.184	62	.174	.128	73
	-48 N 68 W-												
1979	48 51.06N	68 17.49W	28 M.	30	.447	.098	145	.142	.100	42	.106	.068	27
1979	48 51.15N	68 17.72W	250 M.	30	.259	.008	319	.114	.029	74	.022	.016	27
1979	48 56.80N	68 21.00W	12 M.	30	.614	.034	228	.232	.122	58	.192	.079	55
	-48 N 69 W-												
1973	48 7.45N	69 25.90W	18 M.	22	1.458	.406	60	.428	.298	55	.234	.085	47

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

JUNE continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
-48 N 69 W-													
1973	48 8.50N	69 34.18W	50 M.	23	1.056	.001	40	.362	.094	14	.054	.030	7
1973	48 9.88N	69 32.90W	26 M.	23	1.141	.047	104	.421	.206	14	.079	.037	7
1973	48 9.88N	69 32.90W	101 M.	23	.504	.073	219	.221	.054	39	.024	.014	26
1973	48 10.41N	69 32.10W	36 M.	23	1.146	.060	183	.374	.194	27	.089	.031	43
1973	48 11.00N	69 34.90W	108 M.	12	.402	.014	196	.139	.042	37	.017	.010	7
1973	48 11.35N	69 30.50W	150 M.	22	.580	.028	245	.231	.058	39	.014	.012	12
1973	48 12.00N	69 28.60W	200 M.	22	.847	.031	114	.273	.054	42	.022	.015	43
1982	48 12.70N	69 17.70W	20 M.	30	1.747	.256	53	.464	.174	49	.108	.046	62
1982	48 12.70N	69 17.70W	30 M.	30	1.827	.227	61	.480	.209	37	.121	.037	54
1982	48 12.70N	69 17.70W	40 M.	30	1.808	.212	50	.489	.182	28	.098	.021	35
1982	48 12.70N	69 17.70W	50 M.	30	1.441	.165	26	.442	.141	14	.070	.028	33
1973	48 13.30N	69 30.45W	22 M.	22	1.054	.139	231	.263	.126	58	.108	.030	55
1982	48 16.50N	69 22.90W	20 M.	30	.818	.139	211	.261	.132	28	.116	.052	34
1982	48 16.50N	69 22.90W	30 M.	30	.688	.114	203	.246	.135	11	.074	.045	20
-49 N 67 W-													
1979	49 4.70N	67 40.60W	18 M.	30	.672	.151	26	.192	.166	91	.160	.114	133
1979	49 4.70N	67 40.60W	250 M.	30	.313	.026	245	.122	.034	73	.026	.009	78
1979	49 10.20N	67 46.25W	12 M.	30	.782	.257	71	.224	.162	75	.163	.147	86
1979	49 10.20N	67 46.25W	182 M.	30	.263	.028	237	.105	.034	75	.029	.016	68
1979	49 10.80N	67 20.70W	8 M.	30	.908	.374	115	.239	.180	71	.189	.144	51
1982	49 10.90N	67 30.30W	20 M.	30	.934	.123	65	.281	.100	70	.248	.072	71
1982	49 10.90N	67 30.30W	30 M.	30	.813	.073	66	.232	.088	76	.199	.060	77
1963	49 11.00N	67 19.00W	75 M.	16	.350	.025	5	.129	.055	66	.043	.027	110
1982	49 11.50N	67 39.10W	20 M.	30	.873	.126	54	.232	.187	112	.207	.140	133
1982	49 11.50N	67 39.10W	30 M.	30	.619	.130	45	.225	.147	81	.172	.125	94
1979	49 13.50N	67 46.60W	9 M.	30	1.100	.429	80	.273	.142	91	.216	.105	100

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

JULY

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 70 W-												
1982	47 27.20N	70 8.40W	14 M.	31	1.799	.227	194	.836	.101	46	.041	.015	36
1982	47 27.20N	70 8.40W	19 M.	31	1.376	.203	225	.623	.067	42	.035	.027	62
	-48 N 67 W-												
1979	48 54.50N	67 34.00W	18 M.	31	.954	.326	63	.255	.093	63	.202	.066	64
1978	48 57.00N	67 24.50W	24 M.	31	.788	.034	221	.247	.083	72	.166	.057	78
1978	48 57.00N	67 24.50W	60 M.	31	.606	.203	257	.148	.056	80	.088	.026	92
1978	48 57.00N	67 24.50W	150 M.	31	.384	.004	298	.130	.028	73	.047	.009	68
1979	48 57.40N	67 35.80W	95 M.	31	.416	.104	68	.140	.045	75	.049	.030	85
1979	48 59.20N	67 54.00W	11 M.	31	.604	.090	159	.216	.110	42	.115	.072	33
	-48 N 68 W-												
1975	48 37.00N	68 32.90W	16 M.	25	.713	.067	58	.270	.093	66	.243	.031	67
1975	48 37.00N	68 32.90W	26 M.	25	.601	.060	73	.237	.090	63	.203	.032	69
1975	48 37.00N	68 32.90W	76 M.	25	.279	.092	82	.084	.048	59	.056	.014	63
1975	48 37.00N	68 32.90W	151 M.	25	.368	.031	51	.130	.048	72	.027	.010	71
1975	48 39.10N	68 36.60W	15 M.	25	.855	.118	68	.179	.156	51	.104	.072	88
1975	48 39.10N	68 36.60W	75 M.	25	.469	.076	204	.154	.084	58	.084	.063	92
1975	48 39.10N	68 36.60W	150 M.	25	.350	.022	140	.139	.043	47	.042	.019	41
1975	48 39.75N	68 31.05W	17 M.	25	.531	.087	92	.189	.083	63	.140	.032	63
1975	48 39.75N	68 31.05W	27 M.	25	.497	.071	106	.206	.091	61	.147	.036	65
1975	48 39.75N	68 31.05W	77 M.	25	.334	.040	108	.143	.052	50	.053	.015	79
1979	48 51.06N	68 17.49W	28 M.	31	.493	.100	27	.125	.108	114	.109	.063	134
1979	48 51.15N	68 17.72W	250 M.	31	.281	.003	206	.115	.030	72	.023	.014	87
1979	48 56.80N	68 21.00W	12 M.	31	.526	.069	352	.189	.096	64	.152	.056	67
	-48 N 69 W-												
1982	48 12.70N	69 17.70W	20 M.	31	1.364	.218	57	.411	.163	47	.092	.028	64
1982	48 12.70N	69 17.70W	30 M.	31	1.438	.171	64	.386	.189	33	.098	.033	41
1982	48 12.70N	69 17.70W	40 M.	31	1.327	.167	51	.377	.179	20	.074	.019	32
1982	48 12.70N	69 17.70W	50 M.	31	1.078	.148	37	.351	.130	8	.053	.013	31
1968	48 14.50N	69 24.20W	13 M.	30	.862	.117	210	.316	.211	34	.050	.032	44
1968	48 14.50N	69 24.20W	23 M.	30	.819	.134	195	.335	.187	27	.040	.034	25
1968	48 14.50N	69 24.20W	100 M.	30	.468	.090	235	.161	.114	30	.030	.019	117
1982	48 16.50N	69 22.90W	20 M.	31	.600	.108	207	.245	.111	22	.048	.033	24
1982	48 16.50N	69 22.90W	30 M.	31	.538	.120	216	.205	.075	13	.049	.032	17

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 69 W-												
1968	48 19.20N	69 16.70W	13 M.	30	.552	.086	154	.232	.145	338	.051	.037	43
	-49 N 67 W-												
1979	49 4.70N	67 40.60W	18 M.	31	.613	.066	311	.195	.137	61	.116	.105	1
1979	49 4.70N	67 40.60W	250 M.	31	.317	.011	236	.114	.029	80	.018	.012	56
1979	49 10.20N	67 46.25W	12 M.	31	.627	.101	250	.183	.141	51	.124	.081	14
1979	49 10.20N	67 46.25W	182 M.	31	.282	.023	253	.103	.031	76	.020	.012	74
1979	49 10.80N	67 20.70W	8 M.	31	.881	.159	83	.252	.188	85	.203	.164	92
1982	49 10.90N	67 30.30W	20 M.	31	.678	.231	52	.193	.091	65	.127	.061	71
1982	49 10.90N	67 30.30W	30 M.	31	.616	.167	54	.177	.073	76	.110	.049	75
1963	49 11.00N	67 19.00W	75 M.	24	.391	.087	143	.154	.065	65	.092	.043	74
1982	49 11.50N	67 39.10W	20 M.	31	.578	.129	299	.168	.086	65	.109	.051	45
1982	49 11.50N	67 39.10W	30 M.	31	.585	.167	289	.175	.082	65	.102	.050	51
1979	49 13.50N	67 46.60W	9 M.	31	.659	.002	83	.206	.103	67	.128	.058	63

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

AUGUST

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-47 N 70 W-												
1982	47 27.20N	70 8.40W	14 M.	31	1.793	.222	196	.845	.100	45	.041	.020	32
1982	47 27.20N	70 8.40W	19 M.	31	1.359	.204	222	.632	.072	42	.036	.031	32
	-48 N 67 W-												
1979	48 54.50N	67 34.00W	18 M.	27	.927	.324	76	.251	.133	72	.157	.088	80
1978	48 57.00N	67 24.50W	24 M.	21	.741	.089	280	.245	.116	78	.170	.075	96
1978	48 57.00N	67 24.50W	60 M.	21	.616	.140	280	.236	.073	79	.191	.048	79
1978	48 57.00N	67 24.50W	150 M.	31	.357	.025	63	.136	.026	70	.060	.010	69
1979	48 57.40N	67 35.80W	95 M.	14	.544	.098	118	.153	.056	69	.035	.026	64
1979	48 59.20N	67 54.00W	11 M.	31	.777	.320	113	.185	.152	64	.116	.074	328
	-48 N 68 W-												
1979	48 51.06N	68 17.49W	28 M.	31	.472	.134	344	.123	.071	34	.073	.039	3
1979	48 51.15N	68 17.72W	250 M.	31	.245	.008	30	.092	.030	74	.019	.010	67
1979	48 56.80N	68 21.00W	12 M.	16	.488	.107	343	.141	.090	44	.069	.046	12
	-48 N 69 W-												
1982	48 12.70N	69 17.70W	20 M.	31	1.304	.227	56	.380	.152	47	.099	.026	60
1982	48 12.70N	69 17.70W	30 M.	31	1.354	.178	59	.359	.168	33	.097	.022	52
1982	48 12.70N	69 17.70W	40 M.	31	1.237	.169	47	.346	.159	19	.074	.018	39
1982	48 12.70N	69 17.70W	50 M.	31	1.035	.148	35	.308	.118	6	.062	.019	34
1968	48 14.50N	69 24.20W	23 M.	20	.707	.084	193	.302	.161	28	.040	.033	25
1968	48 14.50N	69 24.20W	100 M.	11	.486	.104	207	.193	.085	44	.020	.016	5
1982	48 16.50N	69 22.90W	20 M.	31	.628	.090	213	.232	.104	20	.040	.032	8
1982	48 16.50N	69 22.90W	30 M.	31	.565	.111	217	.191	.066	14	.036	.028	334
1968	48 19.20N	69 16.70W	13 M.	18	.493	.038	119	.200	.130	346	.039	.025	43
	-49 N 67 W-												
1979	49 4.70N	67 40.60W	18 M.	31	.576	.121	177	.181	.124	82	.102	.079	337
1979	49 4.70N	67 40.60W	250 M.	12	.303	.023	222	.124	.062	60	.017	.011	92
1979	49 10.20N	67 46.25W	12 M.	31	.681	.099	269	.177	.146	338	.136	.076	349
1979	49 10.20N	67 46.25W	182 M.	31	.299	.013	70	.101	.040	64	.021	.013	96
1979	49 10.80N	67 20.70W	8 M.	31	.717	.115	270	.205	.165	47	.164	.071	21
1982	49 10.90N	67 30.30W	20 M.	31	.572	.133	44	.201	.082	61	.139	.065	58
1982	49 10.90N	67 30.30W	30 M.	31	.629	.105	55	.180	.088	71	.116	.069	69

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

AUGUST continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 67 W-												
1982	49 11.50N	67 39.10W	20 M.	31	.484	.090	278	.171	.107	86	.112	.070	117
1982	49 11.50N	67 39.10W	30 M.	31	.537	.128	262	.176	.127	73	.110	.087	325
1979	49 13.50N	67 46.60W	9 M.	31	.603	.045	290	.197	.132	80	.135	.093	90

S T. L A W R E N C E E S T U A R Y M O N T H L Y C U R R E N T S T A T I S T I C S SEPTEMBER

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	–47 N 70 W–												
1982	47 27.20N	70 8.40W	14 M.	10	1.601	.236	196	.927	.114	44	.049	.016	36
1982	47 27.20N	70 8.40W	19 M.	11	1.293	.222	220	.698	.078	41	.068	.023	34
	–48 N 67 W–												
1978	48 57.00N	67 24.50W	150 M.	27	.401	.013	62	.138	.029	66	.050	.008	63
1979	48 59.20N	67 54.00W	11 M.	29	.716	.155	345	.224	.181	44	.150	.094	317
	–48 N 68 W–												
1965	[illegible].80N	68 30.20W	9 M.	13	.497	.098	41	.163	.122	23	.150	.057	26
1965	48 39.80N	68 30.20W	94 M.	13	.348	.013	77	.147	.064	48	.026	.014	70
1965	48 39.80N	68 30.20W	194 M.	13	.323	.035	51	.139	.035	53	.015	.007	58
1969	48 40.50N	68 41.00W	18 M.	10	.701	.048	7	.239	.147	39	.152	.083	61
1969	48 40.50N	68 41.00W	250 M.	10	.302	.038	119	.129	.053	58	.049	.022	40
1965	48 43.40N	68 32.40W	8 M.	13	.464	.103	13	.156	.141	26	.146	.072	36
1965	48 43.40N	68 32.40W	101 M.	13	.352	.058	325	.163	.075	43	.063	.033	96
1969	48 44.50N	68 32.00W	18 M.	10	.596	.122	96	.229	.154	61	.224	.112	62
1965	48 46.80N	68 35.10W	13 M.	13	.467	.126	356	.150	.122	118	.093	.064	18
1965	48 46.80N	68 35.10W	300 M.	13	.266	.029	217	.123	.037	54	.028	.013	23
1965	48 49.10N	68 35.10W	11 M.	13	.450	.124	27	.174	.113	73	.119	.057	49
1965	48 49.10N	68 37.00W	148 M.	13	.437	.079	252	.156	.061	62	.045	.019	41
1969	48 50.00N	68 20.00W	18 M.	10	.693	.120	3	.260	.205	49	.268	.188	40
1979	48 51.06N	68 17.49W	28 M.	13	.386	.034	144	.106	.068	48	.041	.017	326
1979	48 51.15N	68 17.72W	250 M.	30	.291	.008	191	.110	.035	68	.019	.009	63
1965	48 51.50N	68 39.00W	13 M.	13	.667	.151	58	.163	.104	82	.099	.056	62
1969	48 53.50N	68 6.50W	13 M.	11	.691	.189	89	.253	.171	44	.139	.129	68
1969	48 53.50N	68 6.50W	18 M.	10	.768	.172	100	.247	.167	55	.138	.122	12
1972	48 53.87N	68 14.20W	13 M.	28	.801	.060	180	.250	.145	76	.198	.089	89
1972	48 53.87N	68 14.20W	75 M.	25	.592	.072	243	.172	.082	91	.114	.039	98
1972	48 53.87N	68 14.20W	323 M.	25	.324	.016	301	.110	.047	69	.033	.022	34
1972	48 55.38N	68 5.57W	11 M.	23	.639	.102	161	.225	.138	70	.143	.056	105
1972	48 55.38N	68 5.57W	75 M.	27	.621	.138	192	.154	.108	78	.109	.056	124
1972	48 55.38N	68 5.57W	175 M.	24	.357	.021	188	.130	.064	66	.050	.046	325
1972	48 55.38N	68 5.57W	303 M.	24	.370	.016	254	.125	.035	74	.038	.012	52

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

SEPTEMBER continued

Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-49 N 67 W-												
1979	49 4.70N	67 40.60W	18 M.	20	.633	.128	53	.167	.126	70	.089	.074	90
1979	49 10.20N	67 46.25W	182 M.	25	.355	.017	63	.115	.050	79	.045	.024	78
1979	49 10.80N	67 20.70W	8 M.	24	.790	.149	120	.332	.189	326	.223	.122	131
1979	49 13.50N	67 46.60W	9 M.	29	1.125	.246	29	.343	.197	120	.309	.157	122

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS

OCTOBER

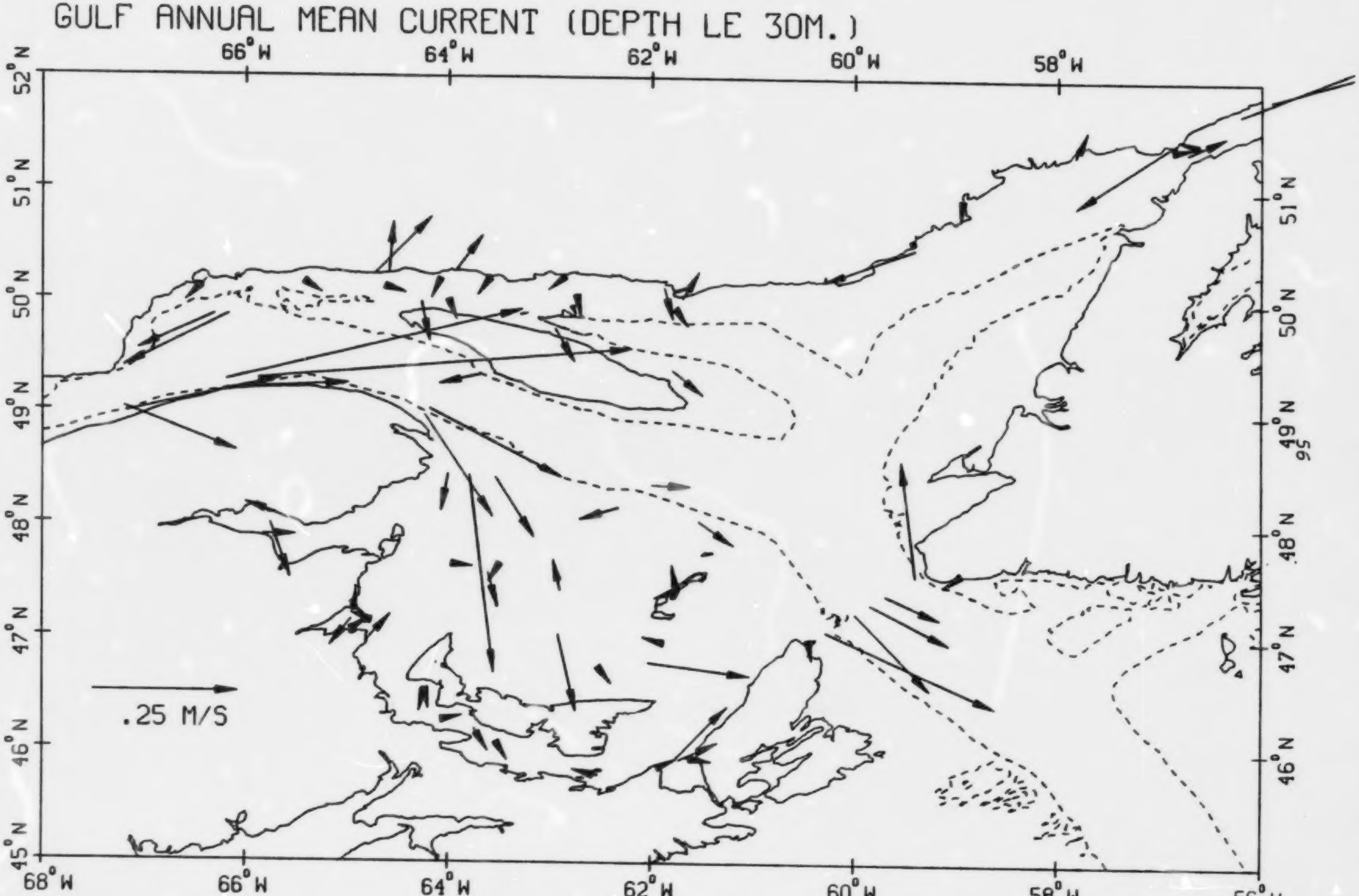
Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1969	48 35.40N	68 48.40W	18 M.	22	.780	.086	344	.255	.155	48	.138	.076	84
1969	48 35.40N	68 48.40W	250 M.	22	.375	.028	241	.116	.043	37	.044	.014	59
1969	48 40.50N	68 41.00W	18 M.	22	.694	.030	222	.189	.117	24	.087	.063	13
1969	48 40.50N	68 41.00W	250 M.	22	.285	.039	181	.107	.062	47	.039	.024	41
1969	48 44.50N	68 32.00W	18 M.	22	.780	.053	215	.243	.141	325	.239	.092	329
1979	48 51.15N	68 17.72W	250 M.	31	.313	.007	66	.114	.032	70	.029	.016	57
1969	48 53.50N	68 6.50W	13 M.	21	.802	.124	124	.309	.220	36	.263	.185	47
1969	48 53.50N	68 6.50W	18 M.	21	.804	.126	133	.292	.206	36	.247	.177	42
1972	48 53.87N	68 14.20W	75 M.	10	.372	.061	216	.134	.088	43	.076	.026	12
1972	48 53.87N	68 14.20W	323 M.	10	.283	.004	250	.120	.029	70	.031	.007	57
1972	48 55.38N	68 5.57W	175 M.	11	.335	.010	249	.132	.043	65	.034	.015	62
1972	48 55.38N	68 5.57W	303 M.	11	.291	.019	280	.111	.031	73	.033	.015	61
	-48 N 69 W-												
1969	48 24.40N	69 8.00W	18 M.	22	.585	.116	184	.170	.128	77	.096	.068	343
1969	48 24.40N	69 8.00W	250 M.	22	.489	.035	217	.194	.052	53	.049	.013	57
1969	48 29.50N	69 1.00W	18 M.	22	.541	.054	242	.221	.108	45	.081	.056	57
1969	48 29.50N	69 1.00W	250 M.	22	.467	.016	242	.151	.049	50	.045	.018	46

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — NOVEMBER

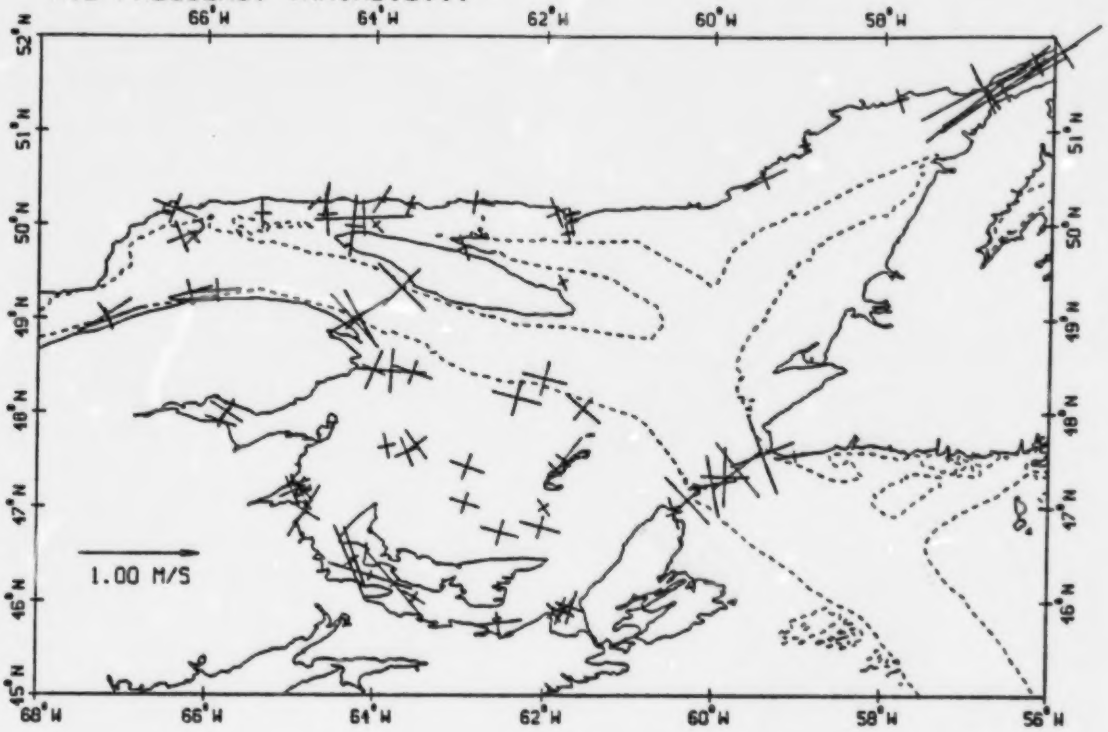
Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1979	48 51.15N	68 17.72W	250 M.	30	.302	.017	116	.109	.038	61	.030	.021	49

ST. LAWRENCE ESTUARY MONTHLY CURRENT STATISTICS — DECEMBER

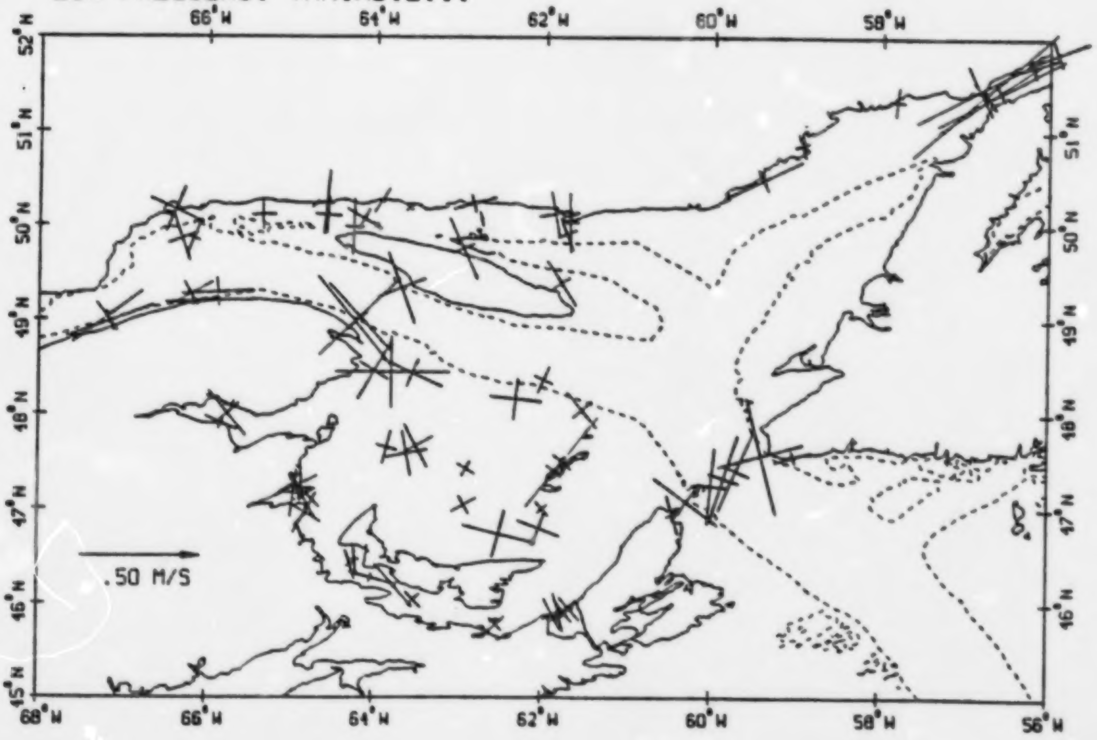
Year	Latitude	Longitude	Mooring Depth M.	Length Days	Maximum Speed m/s	Mean Current Speed m/s	Mean Current Dir Deg T	Mid Freq Variability Major m/s	Mid Freq Variability Minor m/s	Mid Freq Variability Dir Deg T	Low Freq Variability Major m/s	Low Freq Variability Minor m/s	Low Freq Variability Dir Deg T
	-48 N 68 W-												
1980	48 51.45N	68 12.73W	250 M.	31	.340	.026	65	.132	.063	70	.065	.043	93


GULF ANNUAL MEAN CURRENT (DEPTH LE 30M.)
68°W
66°W
64°W
62°W
60°W
58°W
56°W
45°N
46°N
47°N
48°N
49°N
50°N
51°N
52°N
.25 M/S

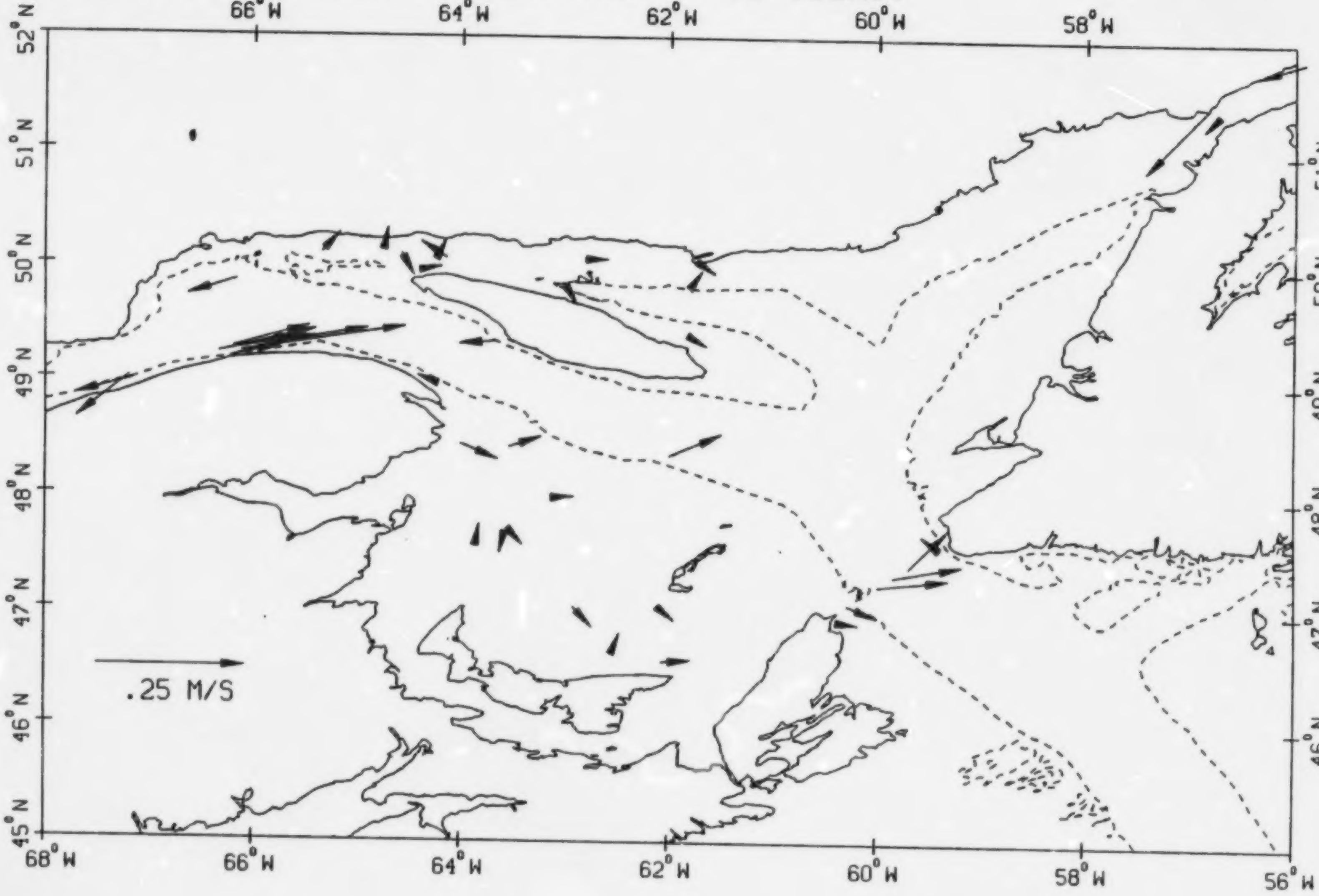
MID FREQUENCY VARIABILITY

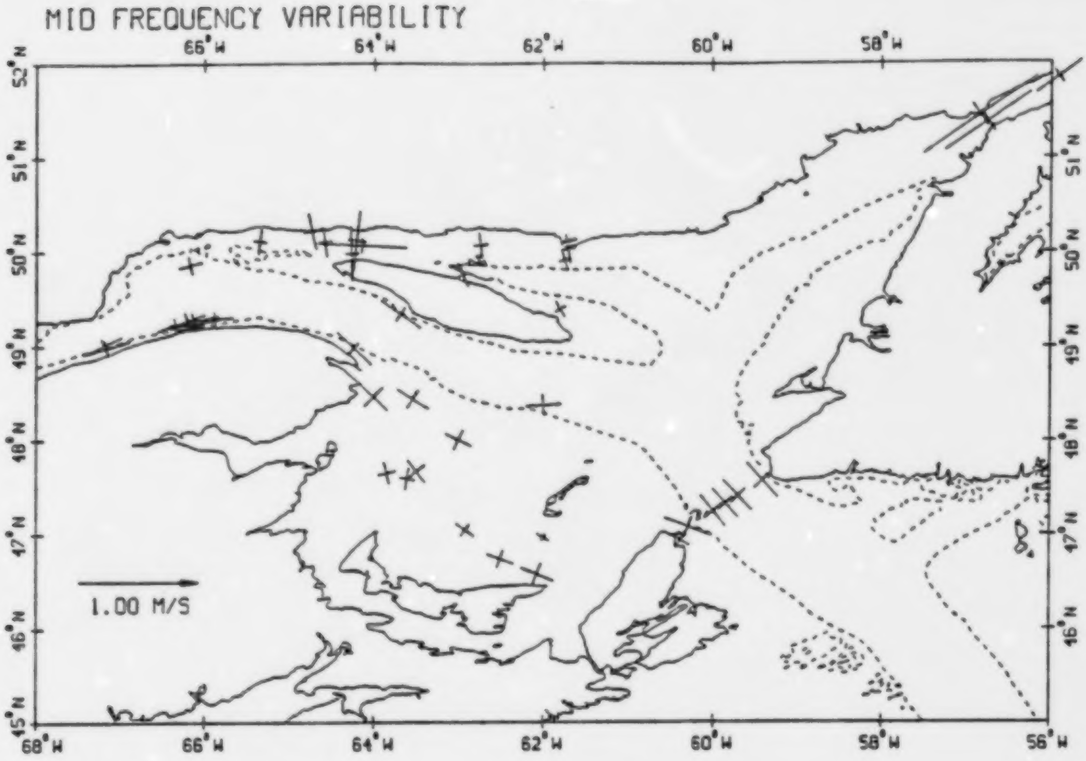


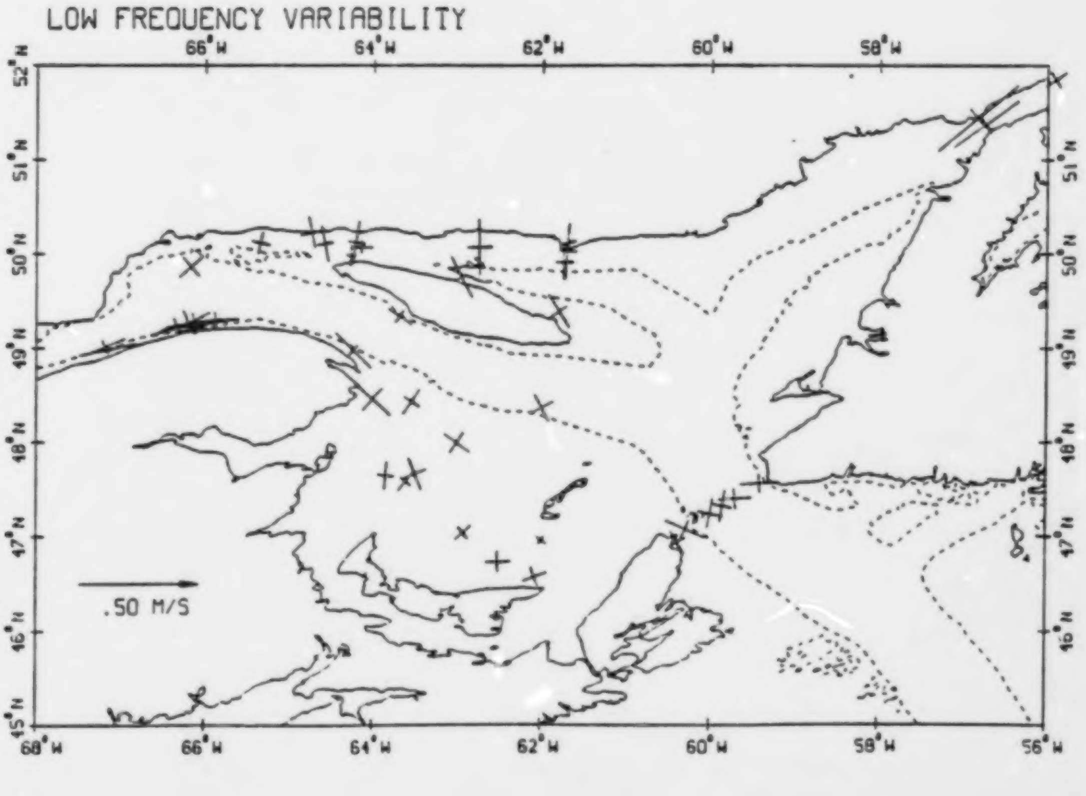
LOW FREQUENCY VARIABILITY



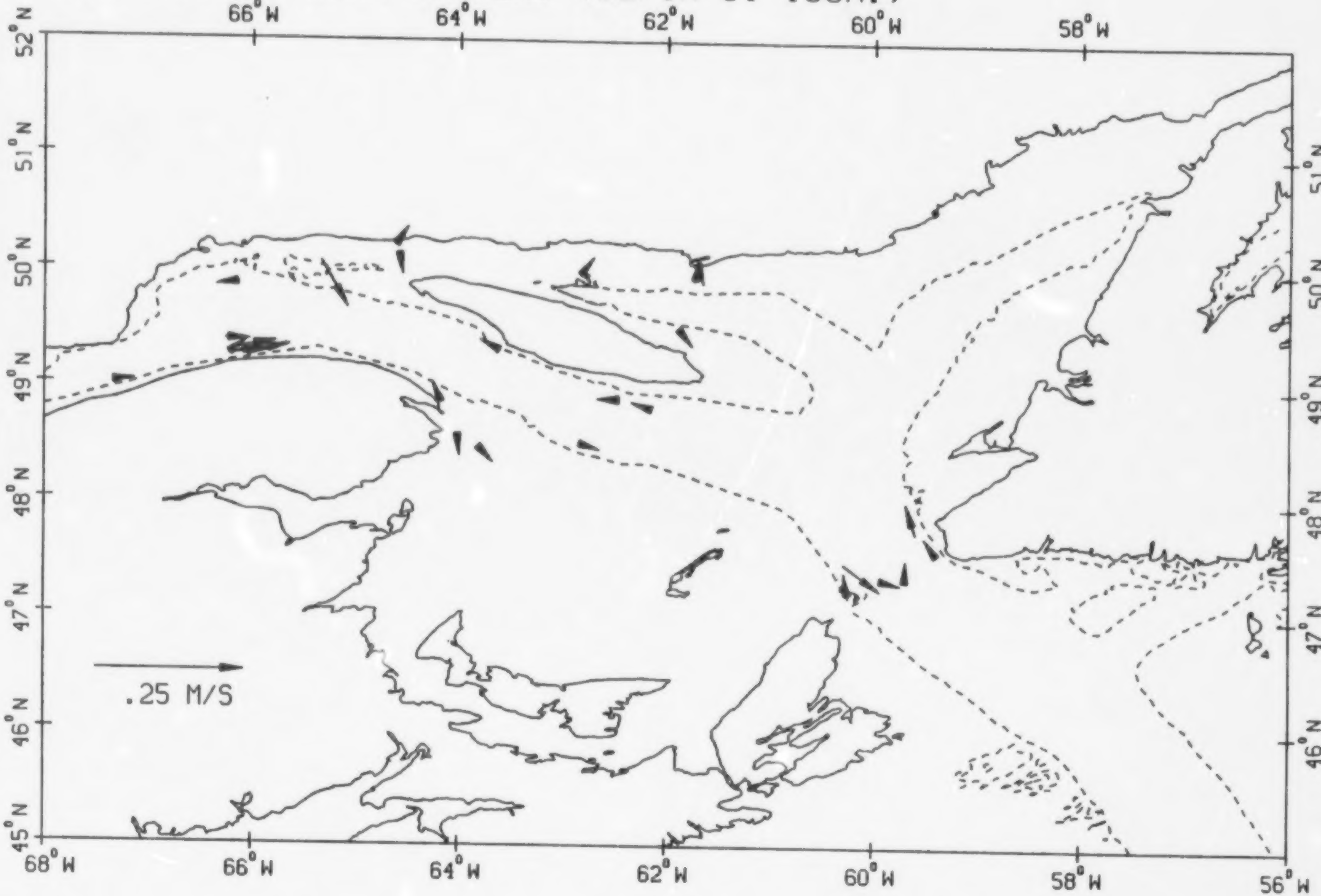
GULF ANNUAL MEAN CURRENT (DEPTH 30-100M.)



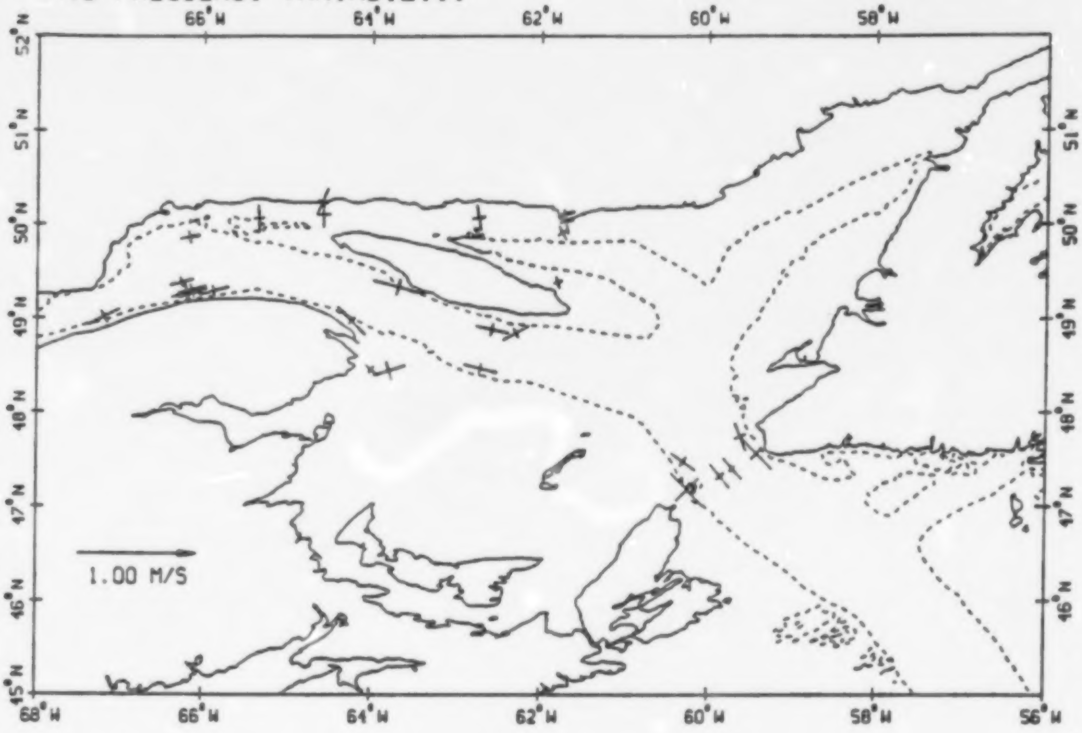

MID FREQUENCY VARIABILITY
66°W
64°W
62°W
60°W
58°W
52°N
51°N
50°N
49°N
48°N
47°N
46°N
45°N
1.00 M/S
68°W
56°W


LOW FREQUENCY VARIABILITY
66°W
64°W
62°W
60°W
58°W
52°N
51°N
50°N
49°N
48°N
47°N
46°N
45°N
.50 M/S
68°W
56°W

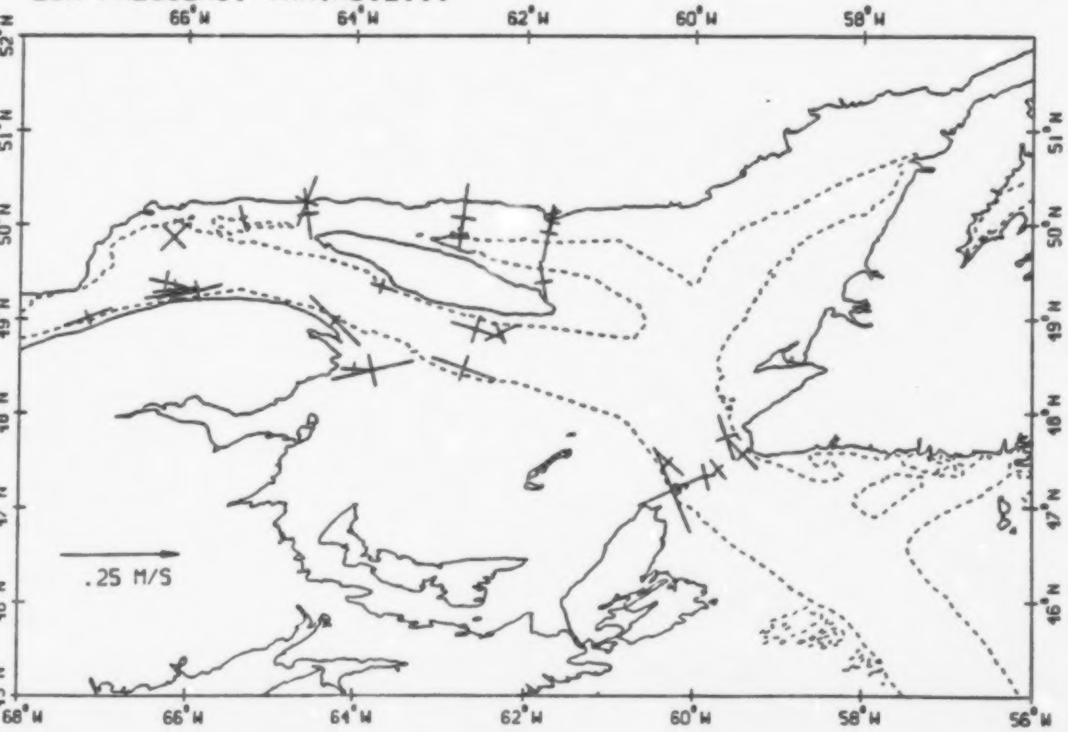
GULF ANNUAL MEAN CURRENT (DEPTH GT 100M.)

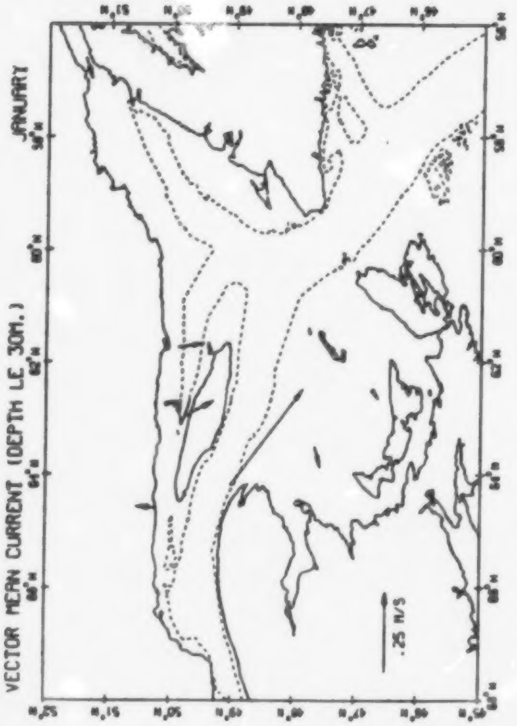


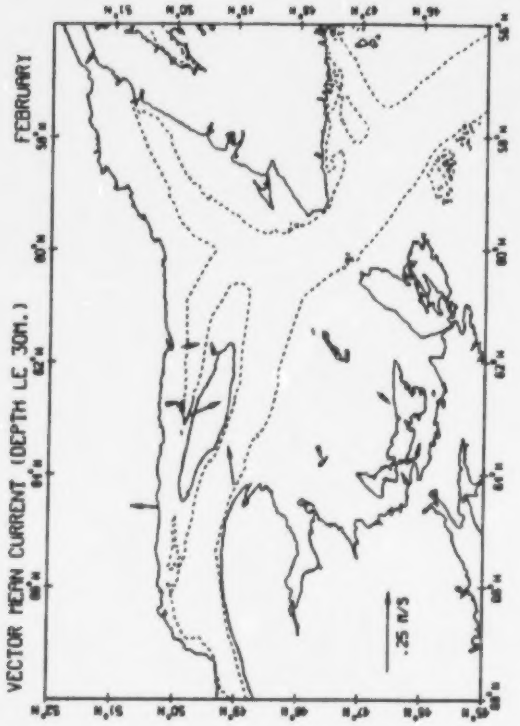
MID FREQUENCY VARIABILITY

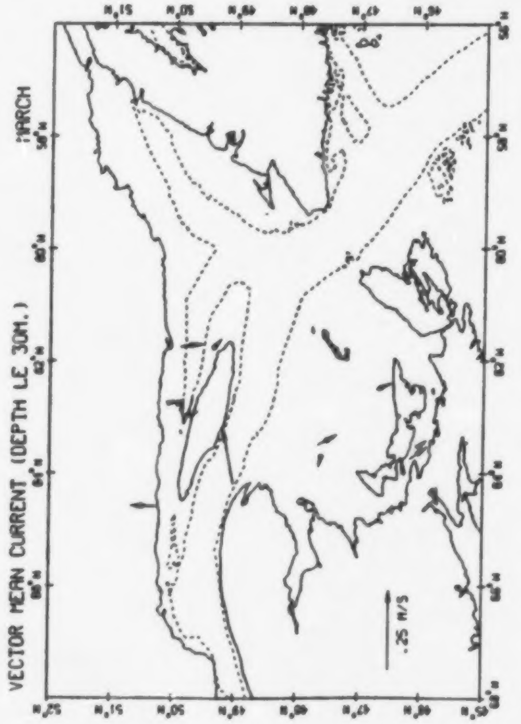


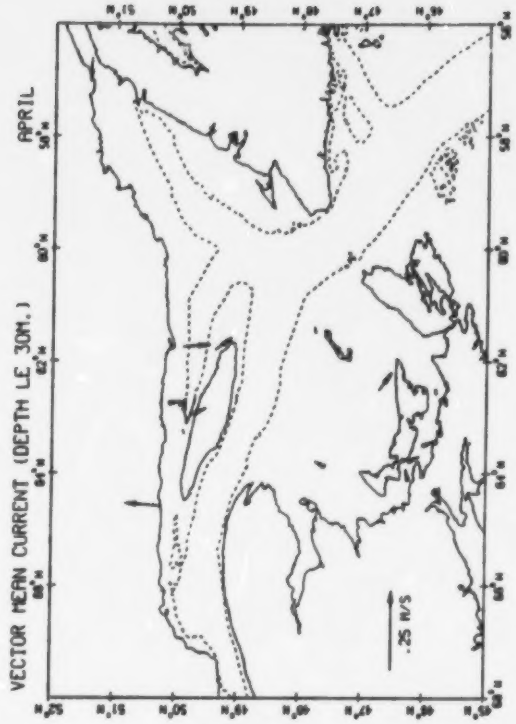
LOW FREQUENCY VARIABILITY

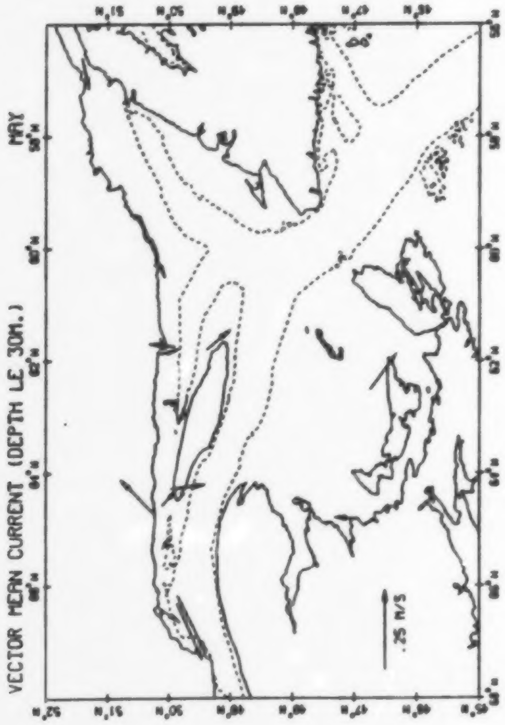


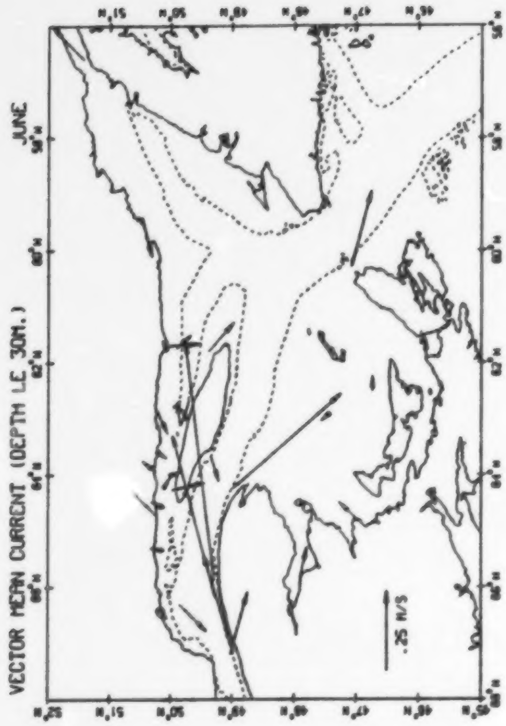

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JANUARY
.25 M/S

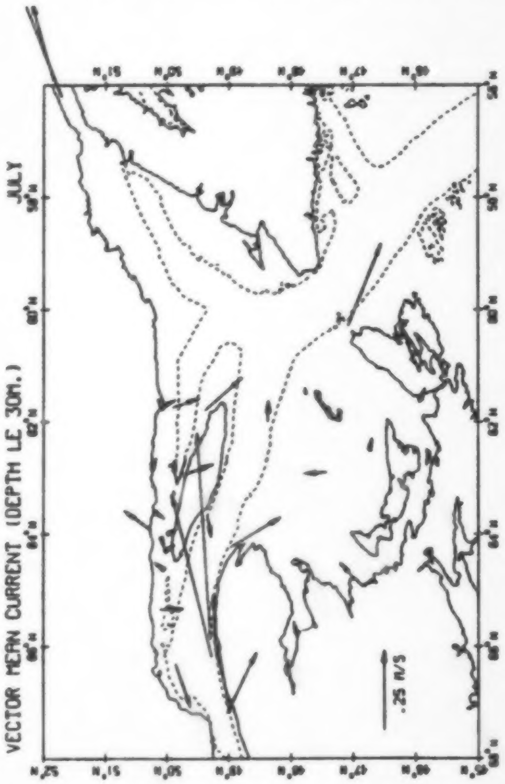

VECTOR MEAN CURRENT (DEPTH LE 30M.)
FEBRUARY
.25 M/S

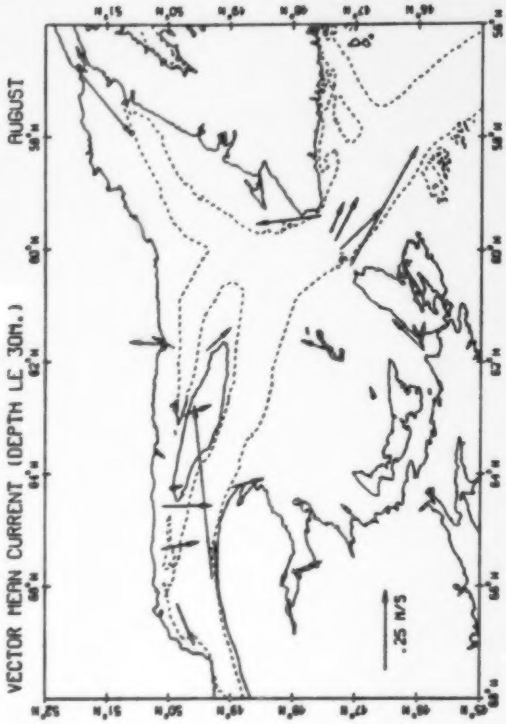

VECTOR MEAN CURRENT (DEPTH LE 30M.)
MARCH
.25 M/S

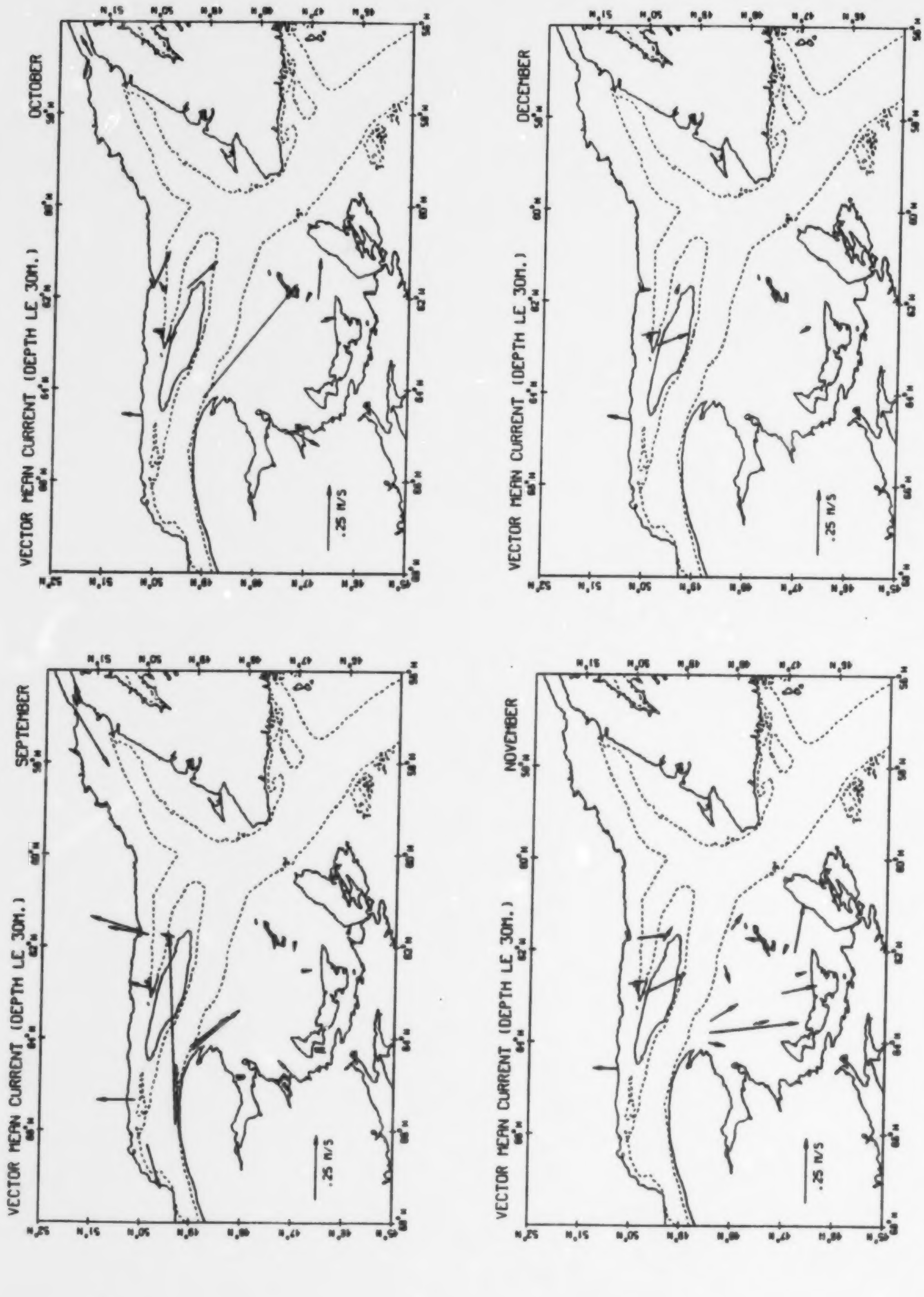

VECTOR MEAN CURRENT (DEPTH LE 30M.)
APRIL
.25 M/S

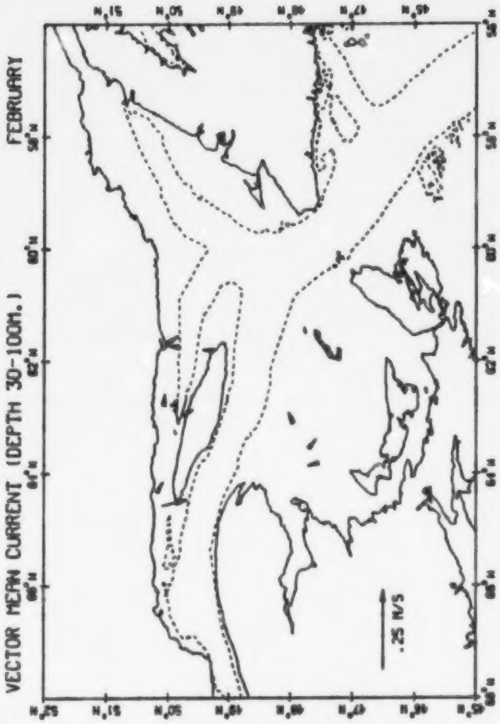

VECTOR MEAN CURRENT (DEPTH LE 30M.)
MAY
.25 M/S

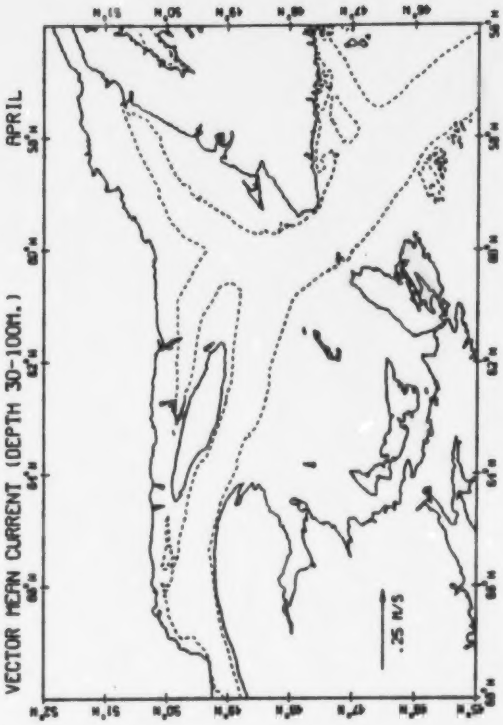

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JUNE
.25 M/S

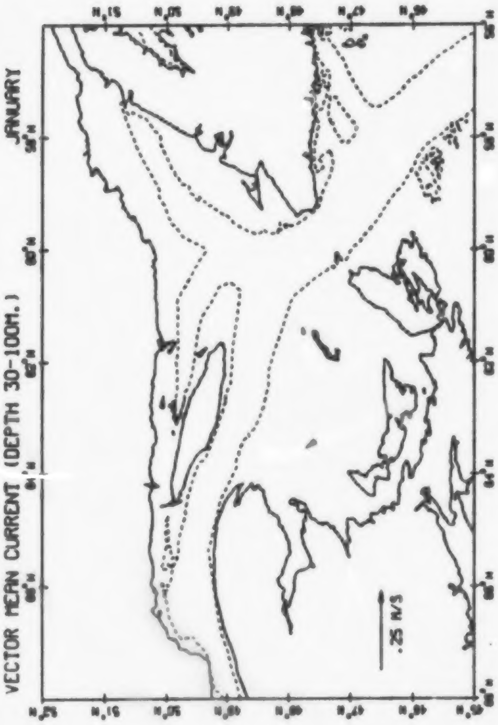

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JULY
.25 M/S

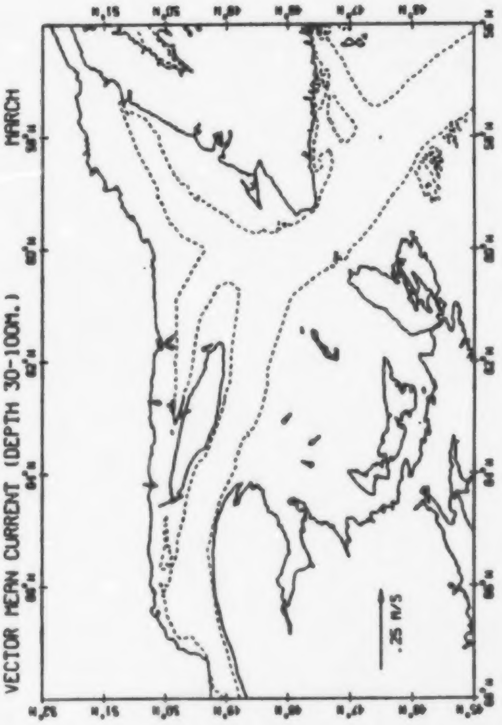

VECTOR MEAN CURRENT (DEPTH LE 30M.)
AUGUST
.25 M/S

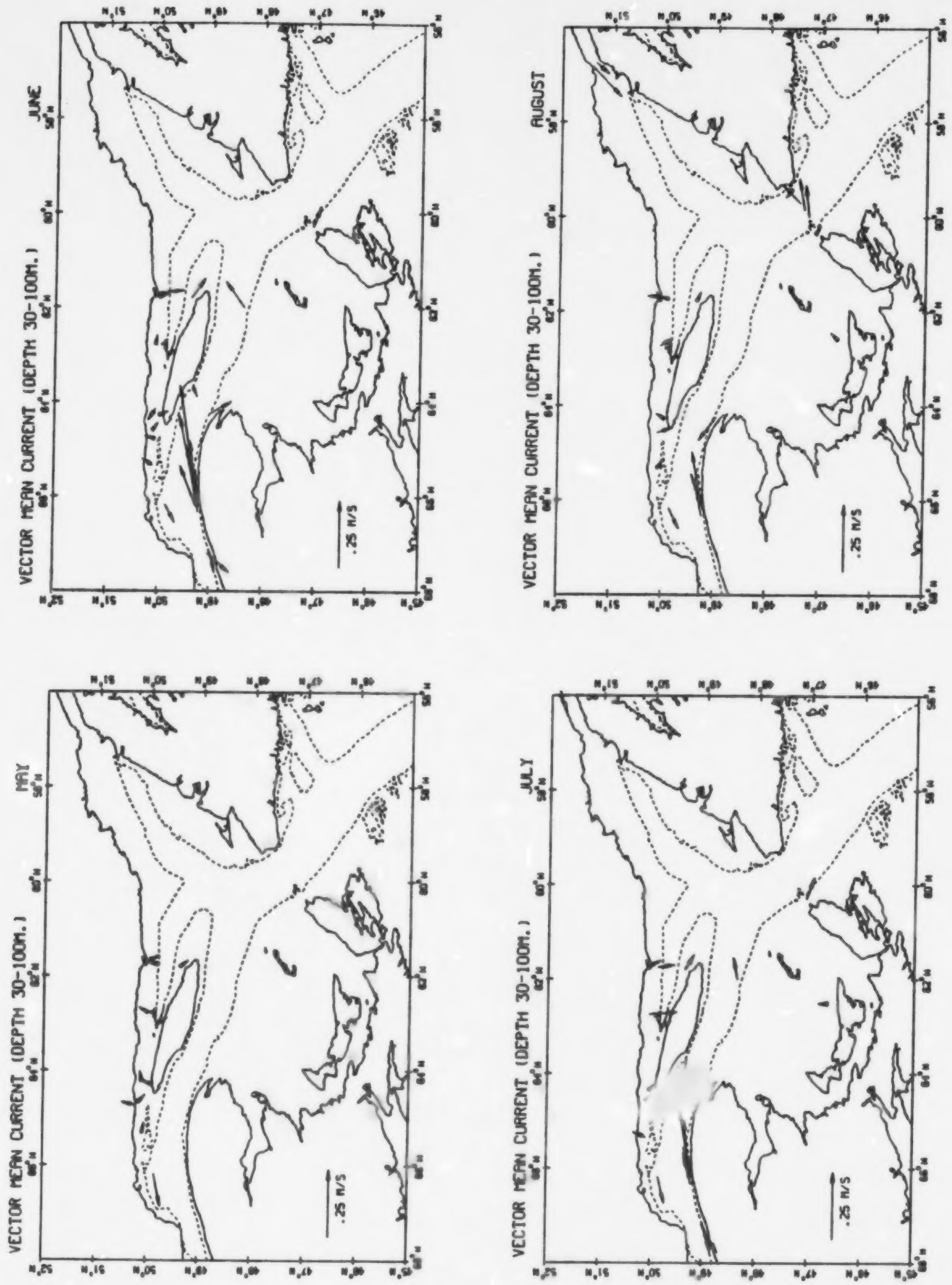

VECTOR MEAN CURRENT (DEPTH LE 30M.)
SEPTEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
OCTOBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
NOVEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
DECEMBER
.25 M/S

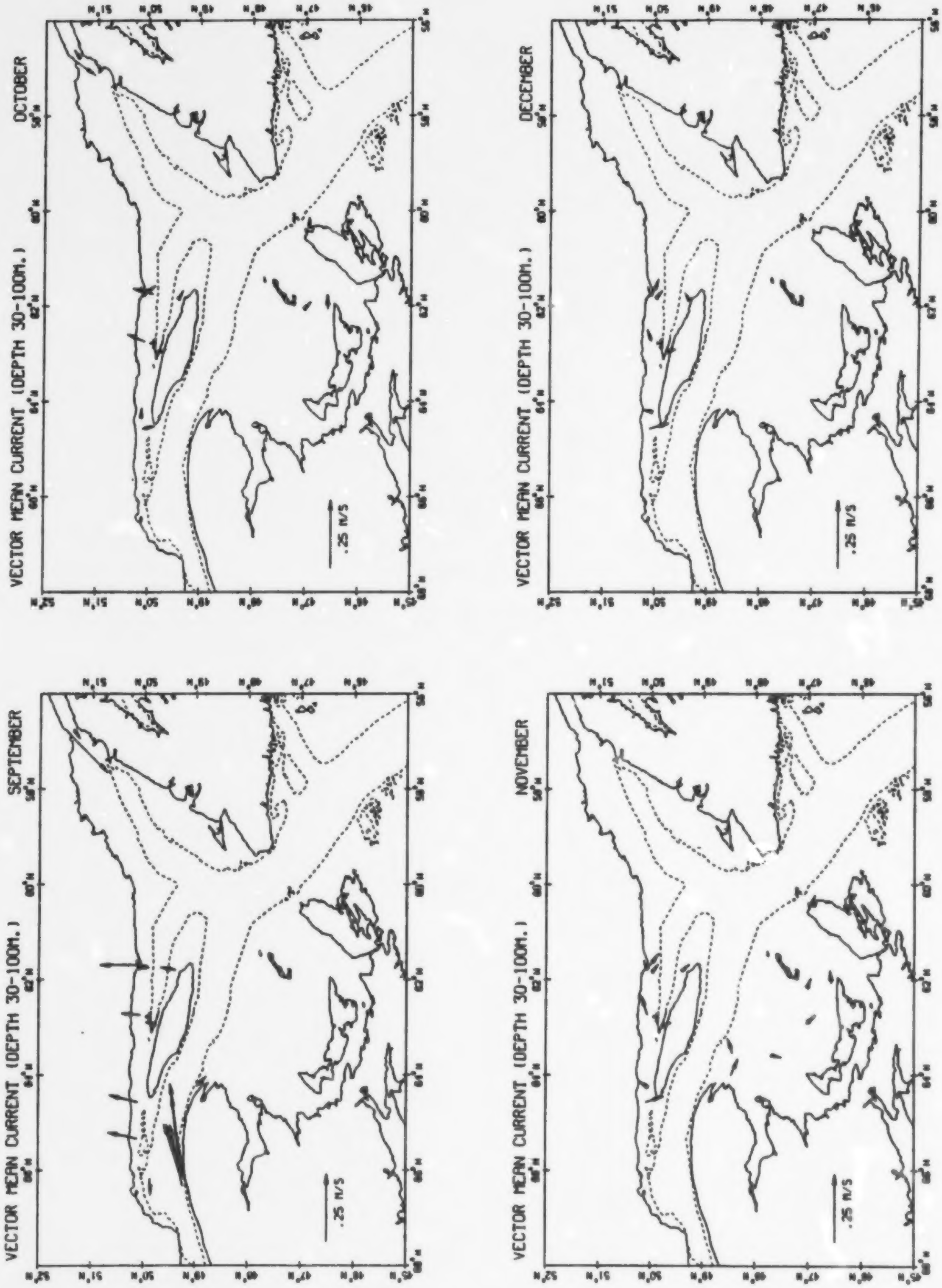

VECTOR MEAN CURRENT (DEPTH 30-100M.)
FEBRUARY
.25 M/S

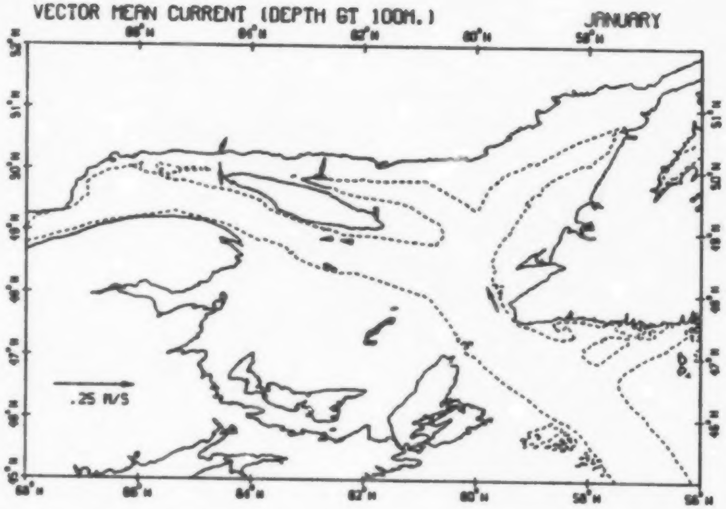

VECTOR MEAN CURRENT (DEPTH 30-100M.)
APRIL
.25 M/S

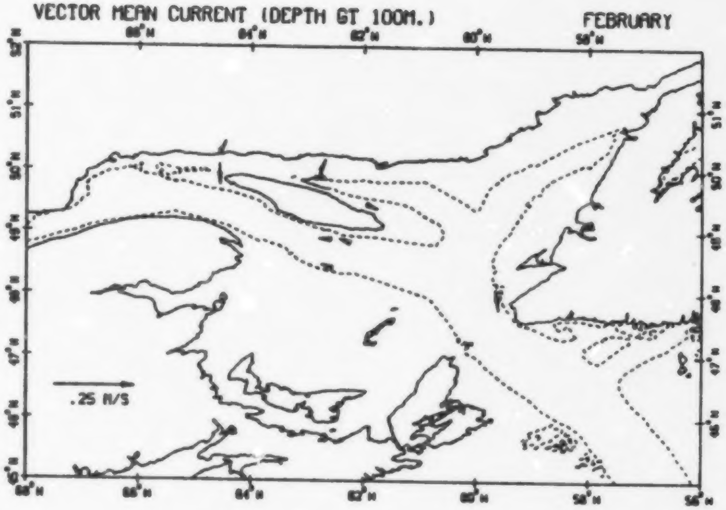

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JANUARY
.25 M/S

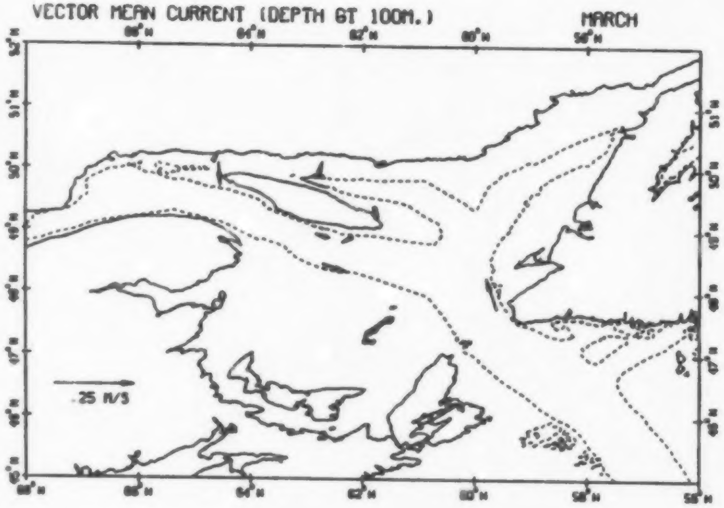

VECTOR MEAN CURRENT (DEPTH 30-100M.)
MARCH
.25 M/S

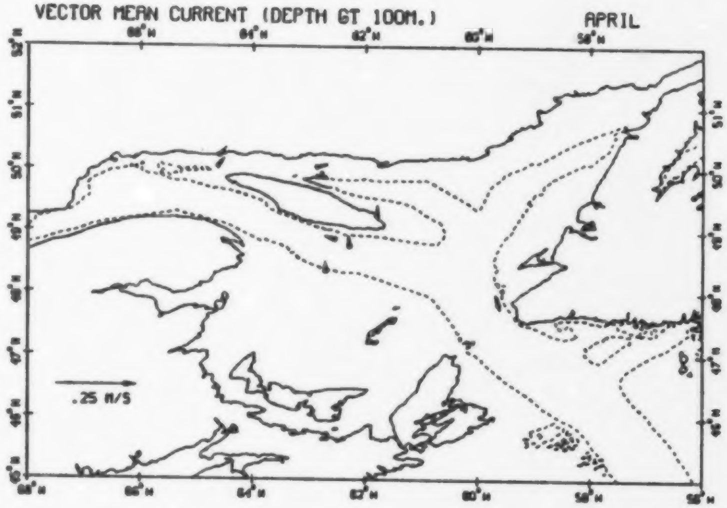

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JUNE
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.)
AUGUST
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.)
MAY
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.)
JULY
.25 M/S

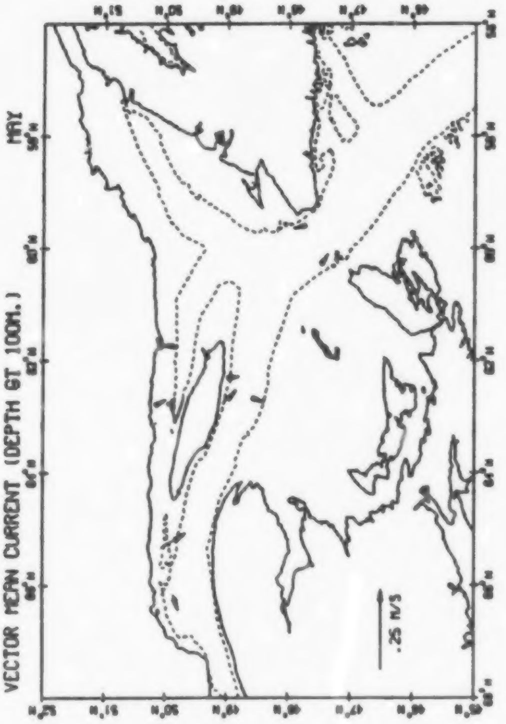

VECTOR MEAN CURRENT (DEPTH 30-100M.) OCTOBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) DECEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) SEPTEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) NOVEMBER
.25 M/S

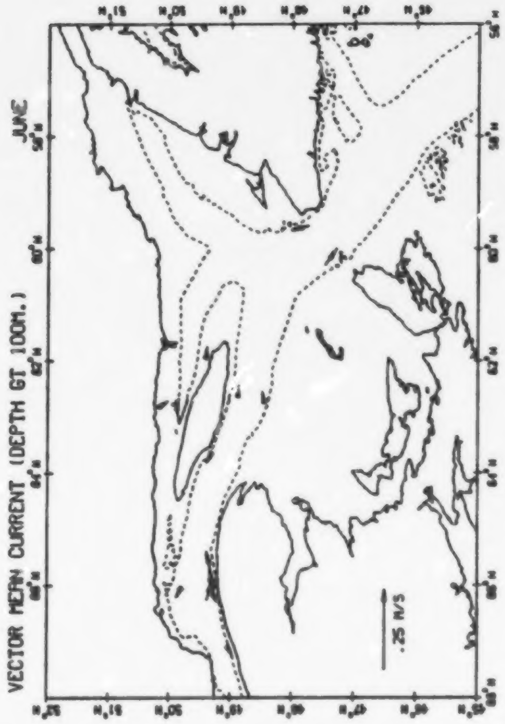

VECTOR MEAN CURRENT (DEPTH GT 100M.)
JANUARY
.25 M/S

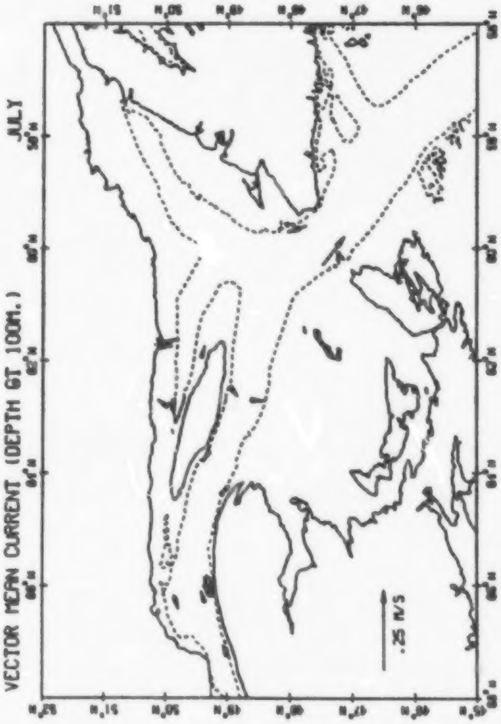

VECTOR MEAN CURRENT (DEPTH GT 100M.)
FEBRUARY
.25 M/S

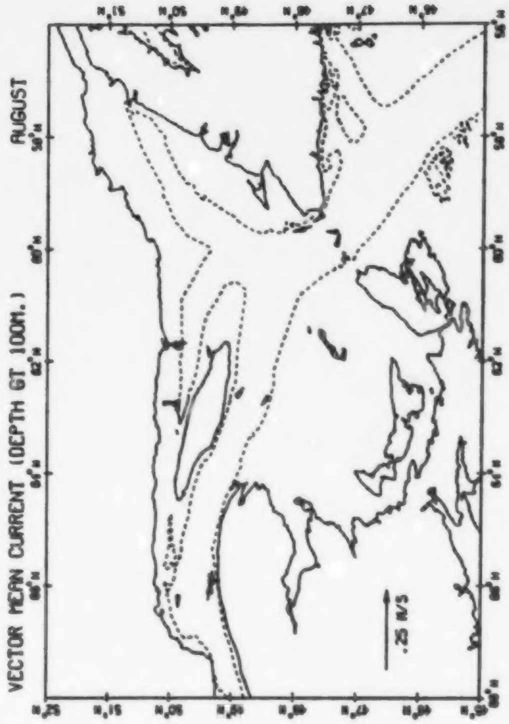

VECTOR MEAN CURRENT (DEPTH GT 100M.)
MARCH
.25 M/S

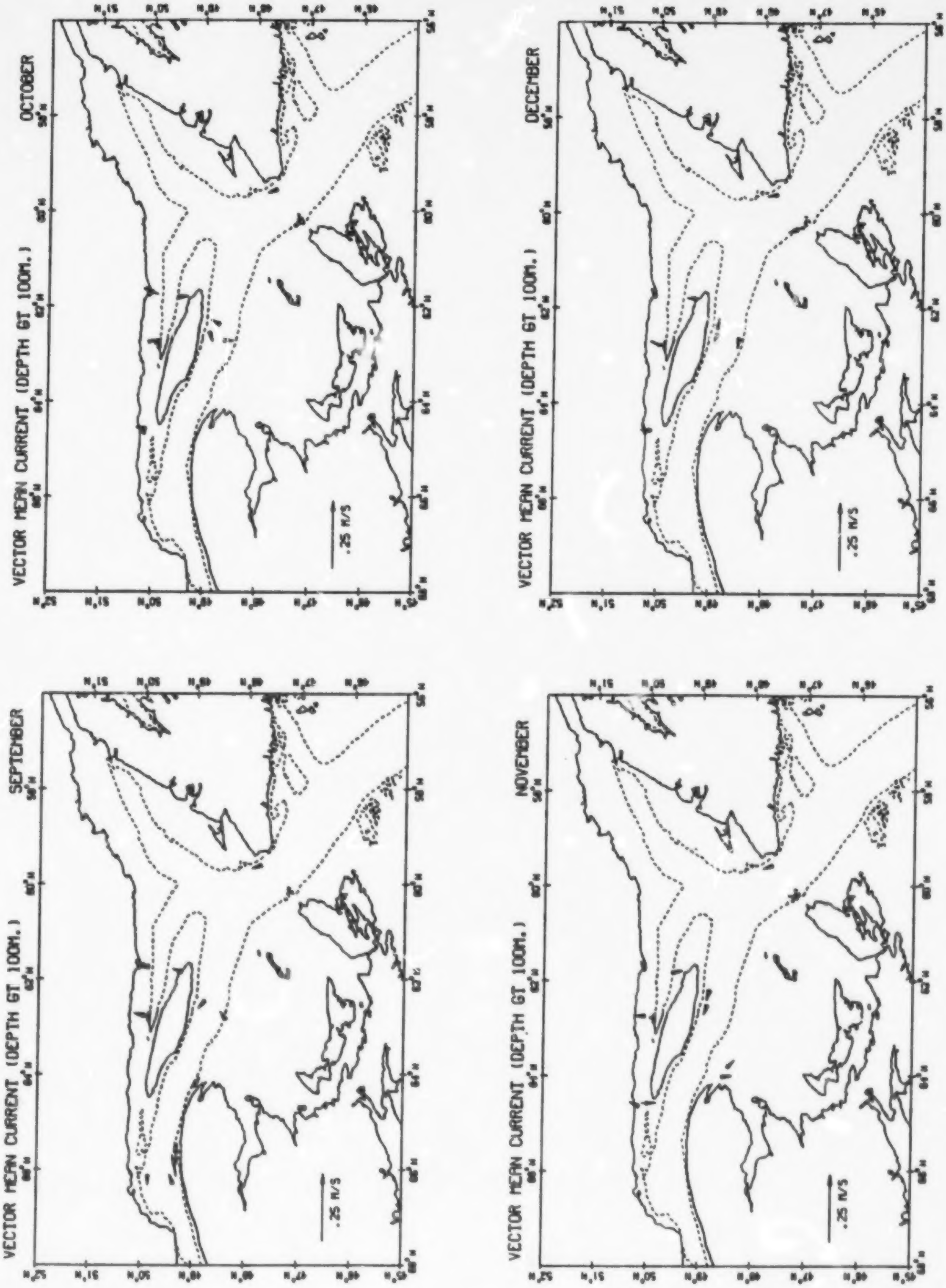

VECTOR MEAN CURRENT (DEPTH GT 100M.)
APRIL
.25 M/S

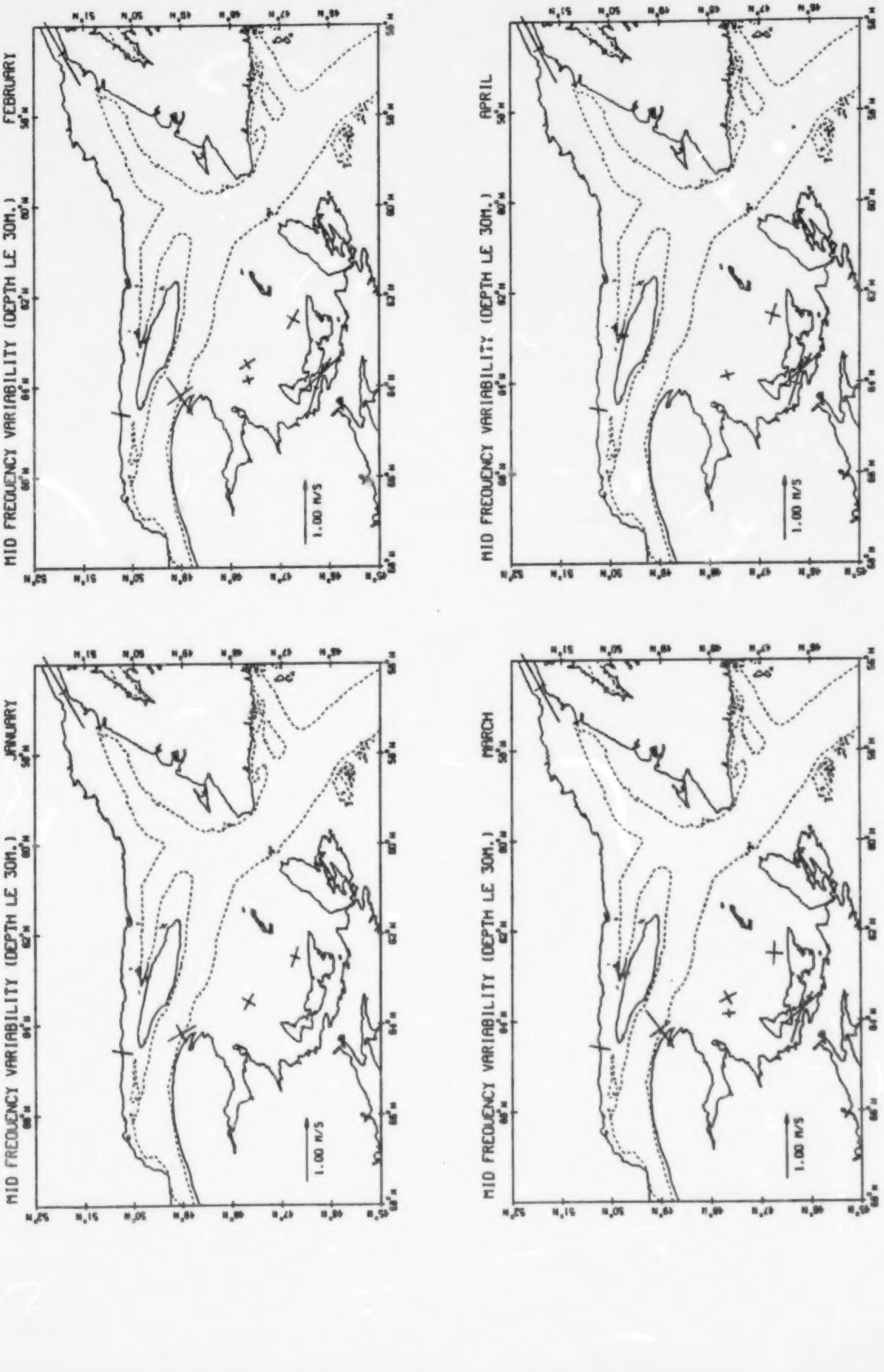

VECTOR MEAN CURRENT (DEPTH GT 100M.)
MAY
.25 M/S

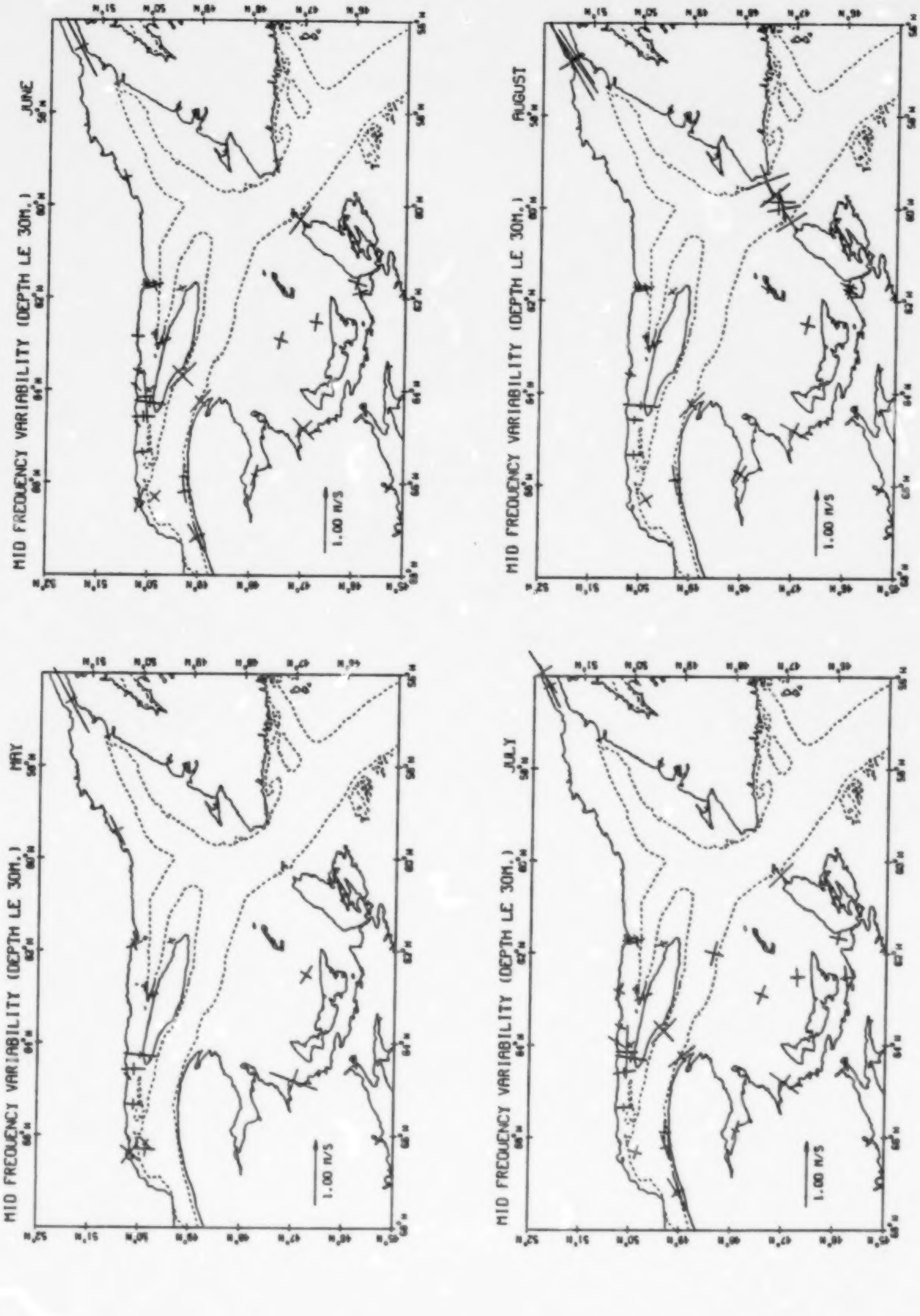

VECTOR MEAN CURRENT (DEPTH GT 100M.)
JUNE
.25 M/S

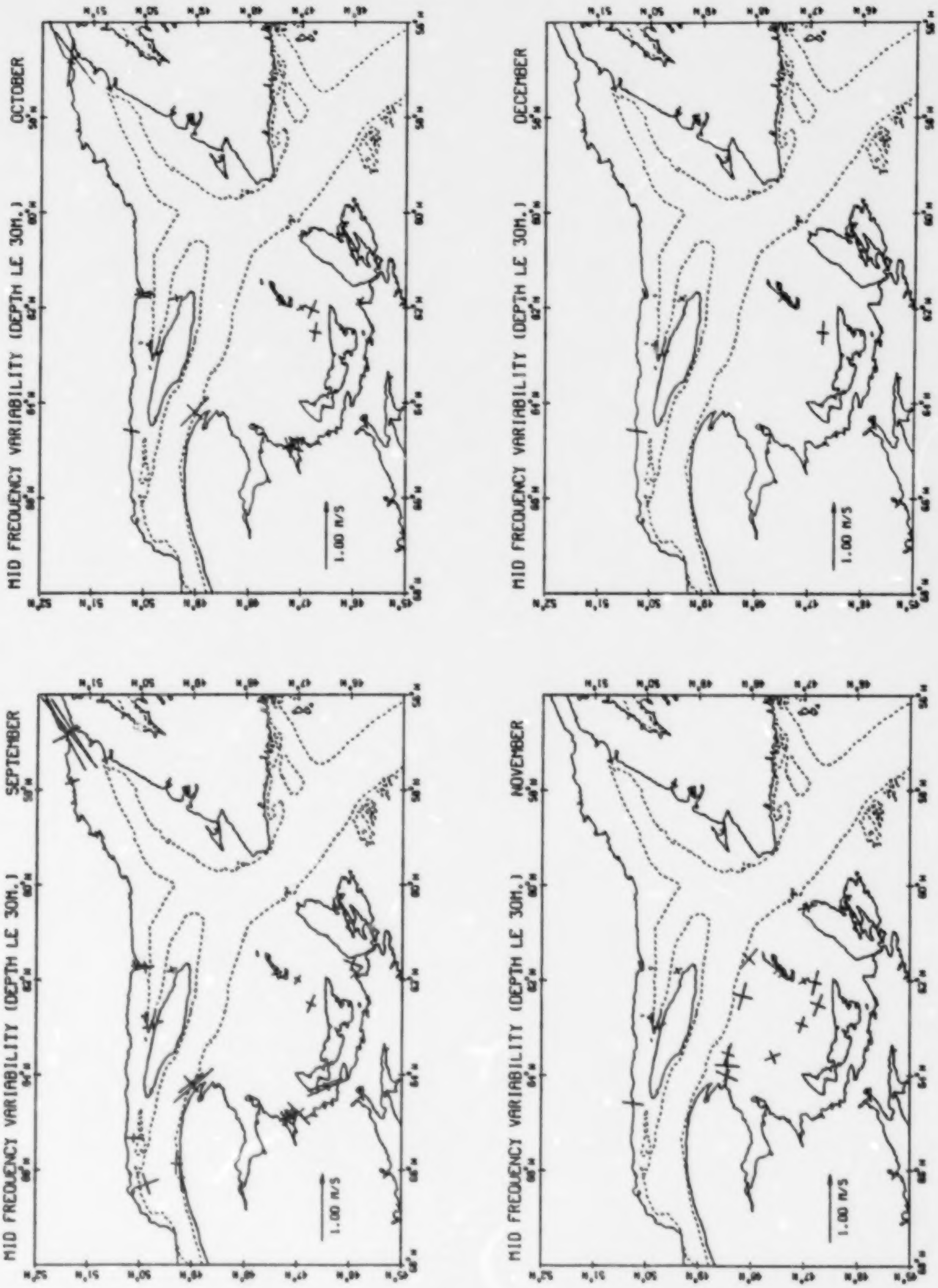

VECTOR MEAN CURRENT (DEPTH GT 100M.)
JULY
.25 M/S

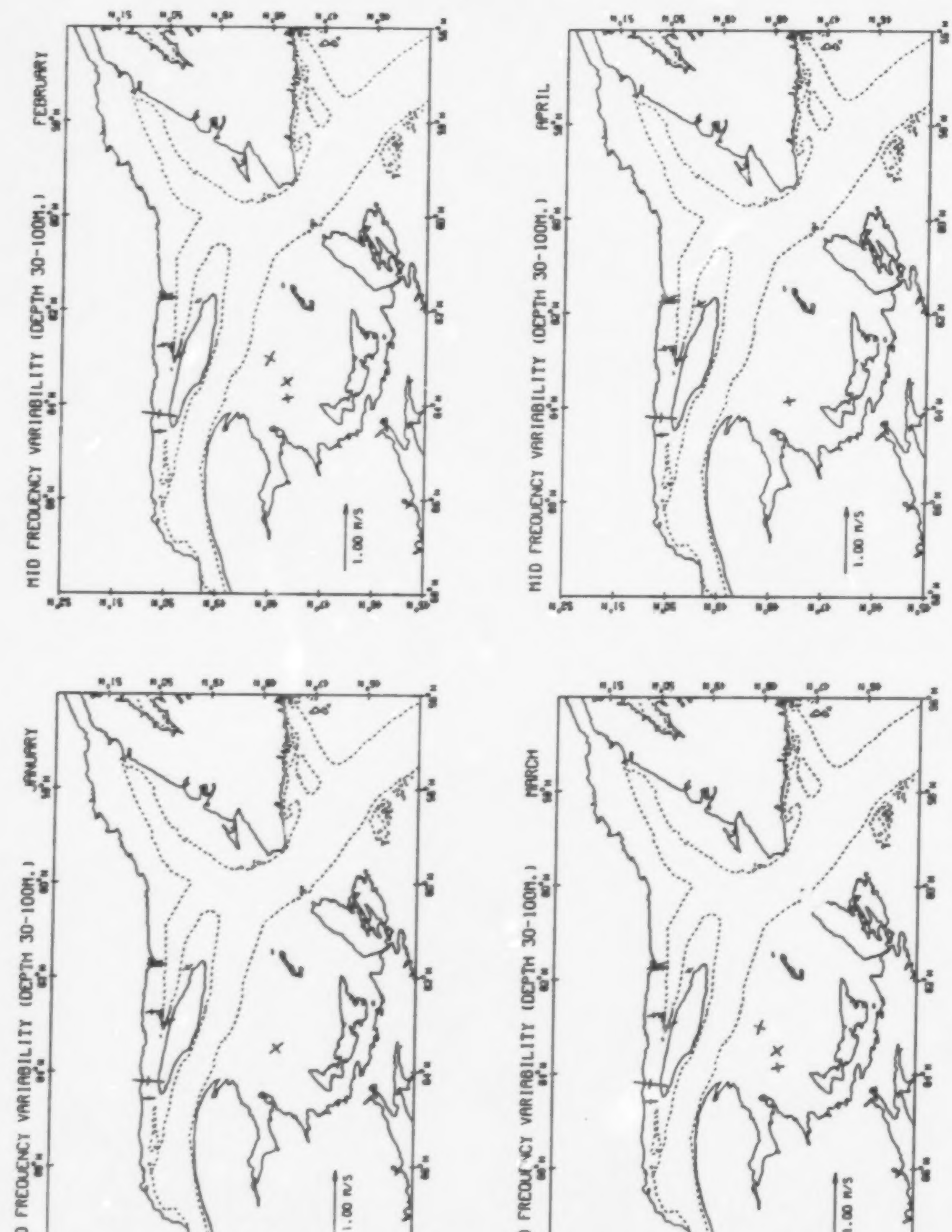

VECTOR MEAN CURRENT (DEPTH GT 100M.)
AUGUST
.25 M/S

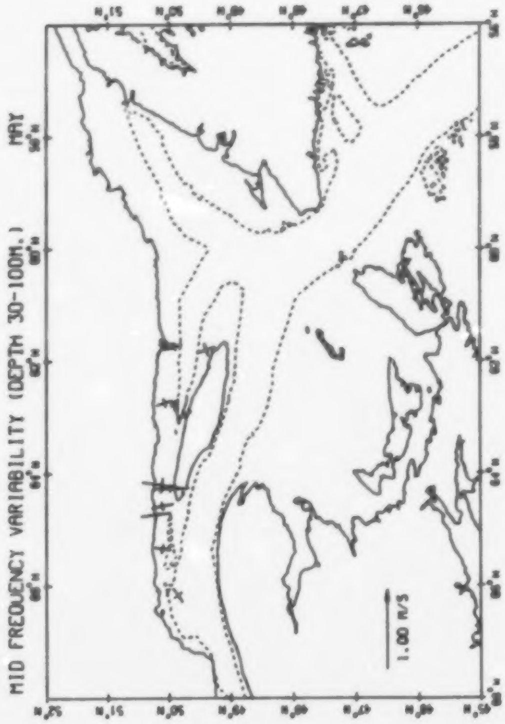

VECTOR MEAN CURRENT (DEPTH GT 100M.) SEPTEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) OCTOBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) NOVEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) DECEMBER
.25 M/S

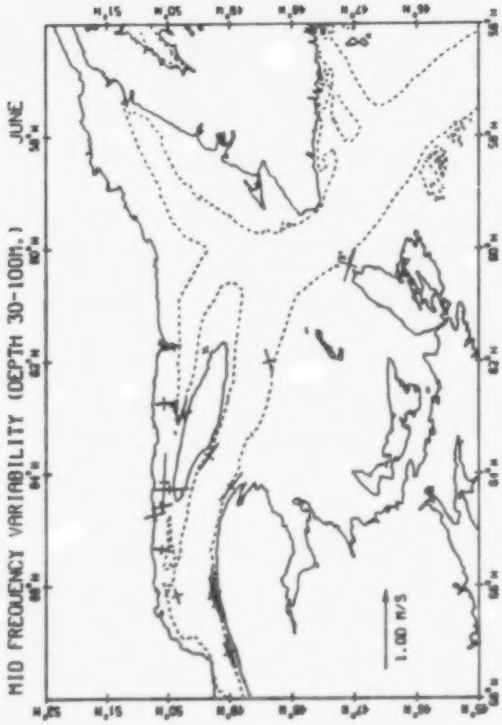

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JANUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
FEBRUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
MARCH
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
APRIL
1.00 M/S

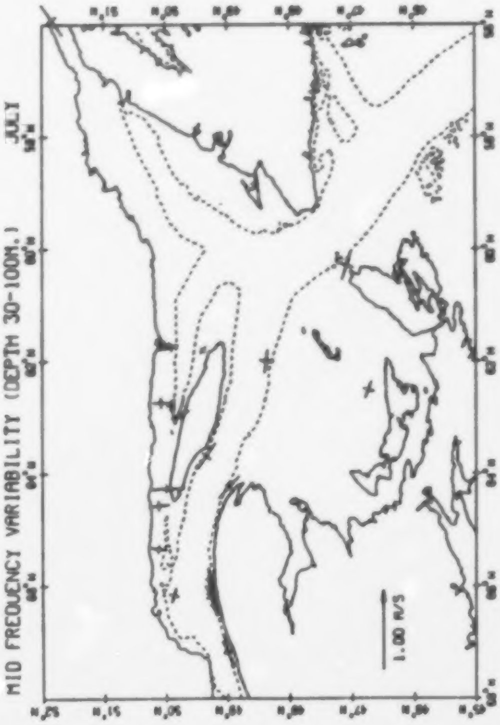

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
MAY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JUNE
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JULY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
AUGUST
1.00 M/S

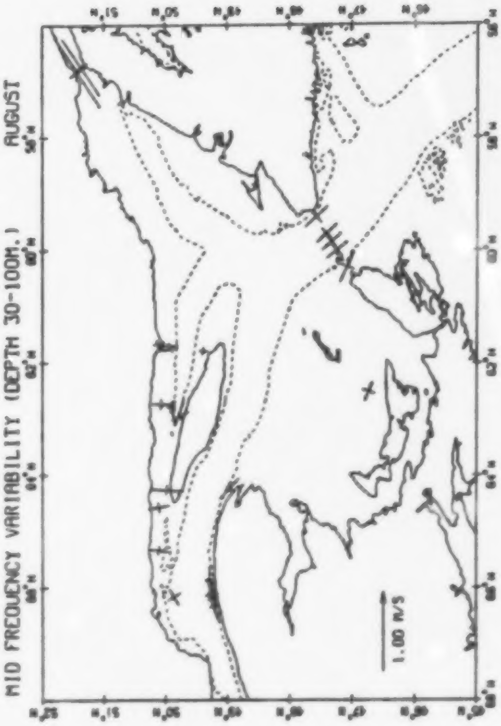

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
DECEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
NOVEMBER
1.00 M/S

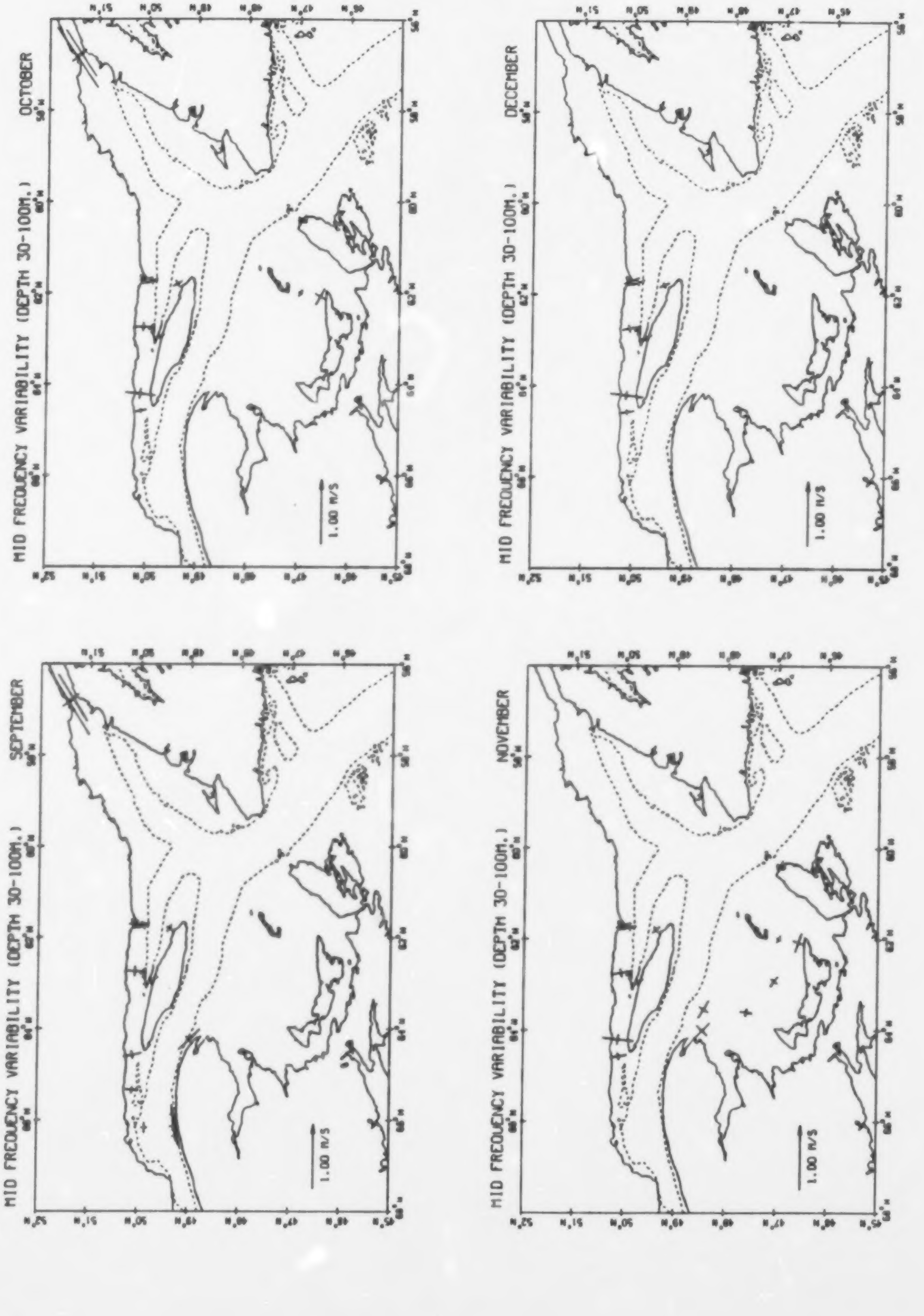

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
FEBRUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
APRIL
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
JANUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
MARCH
1.00 M/S

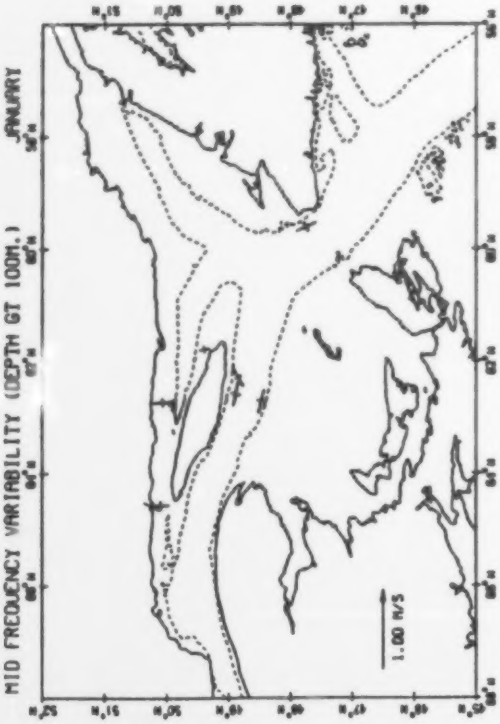

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) MAY
1.00 M/S

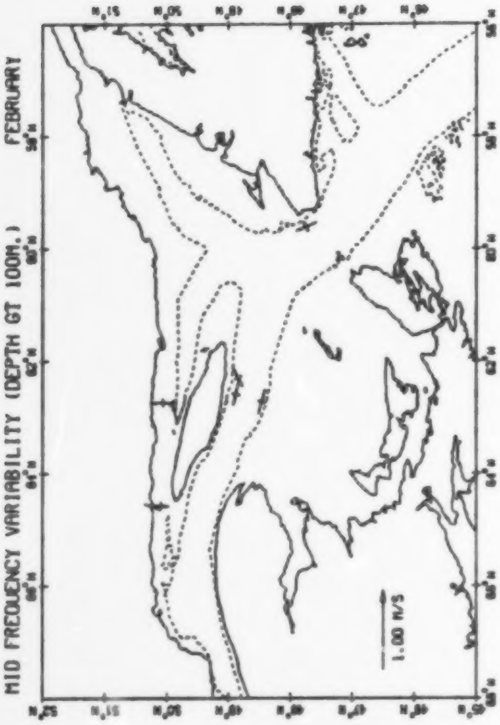

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JUNE
1.00 M/S

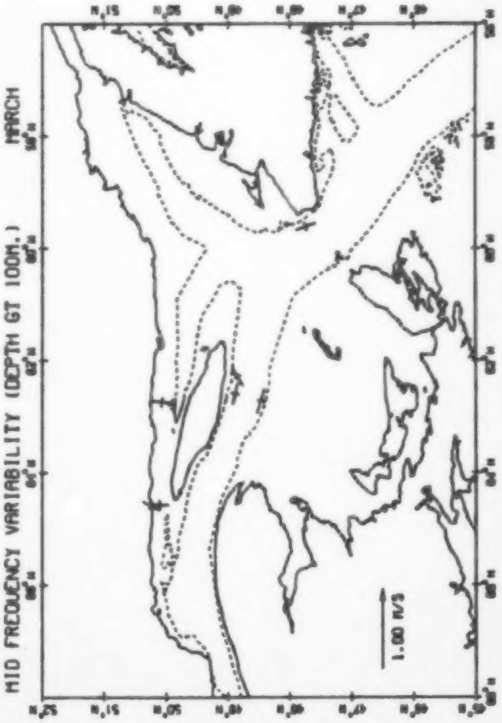

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JULY
1.00 M/S

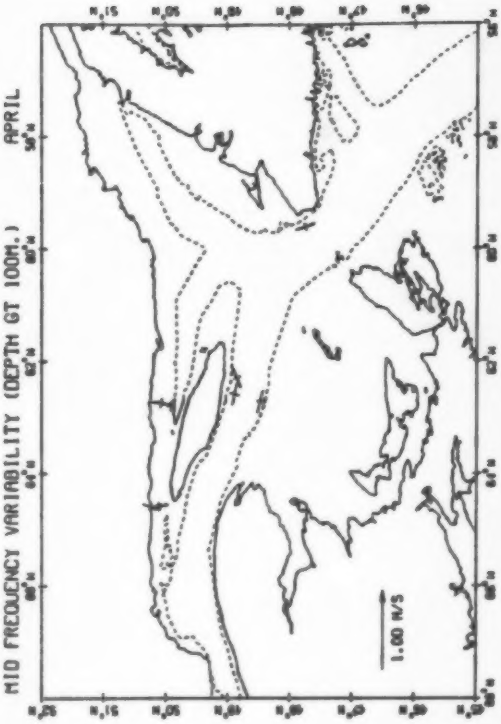

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST
1.00 M/S

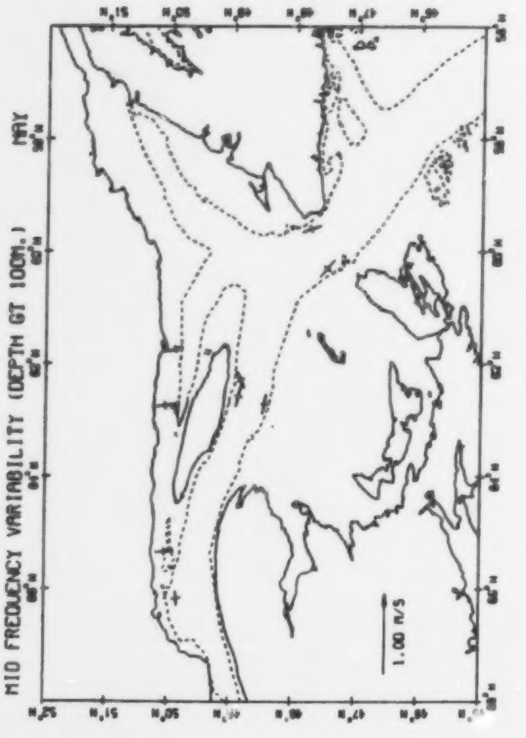

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) NOVEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) DECEMBER
1.00 M/S

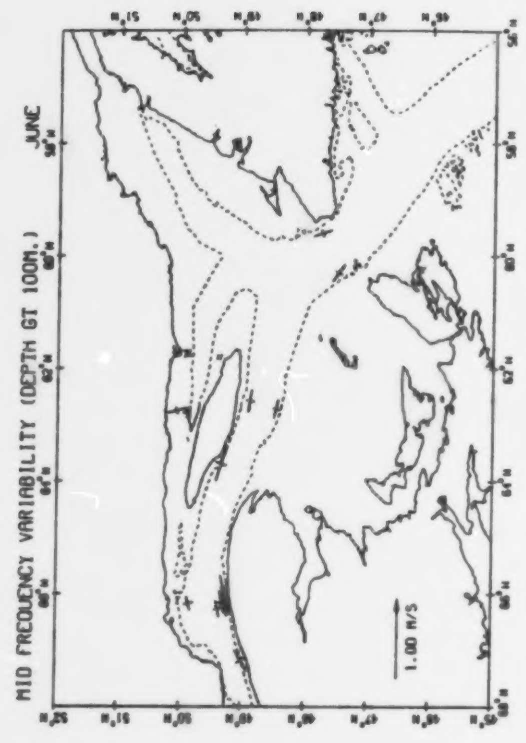

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
JANUARY
1.00 M/S

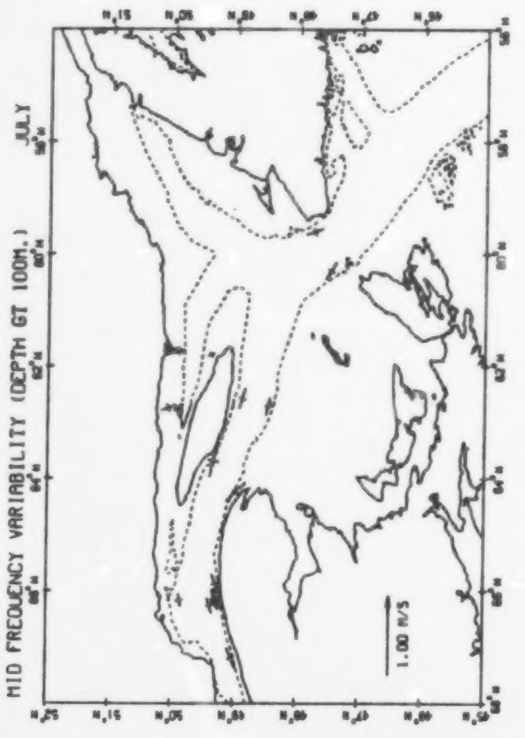

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
FEBRUARY
1.00 M/S

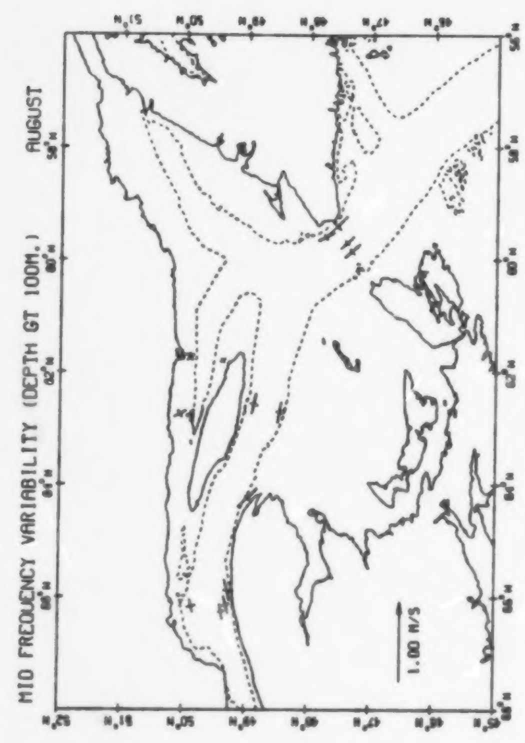

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
MARCH
1.00 M/S

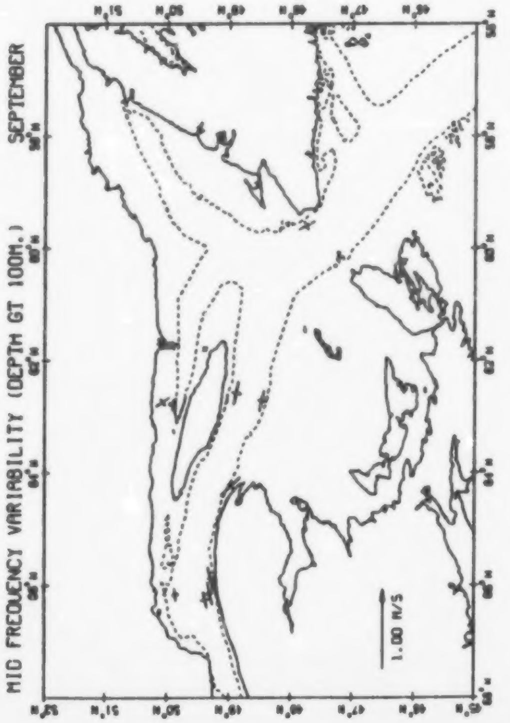

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
APRIL
1.00 M/S

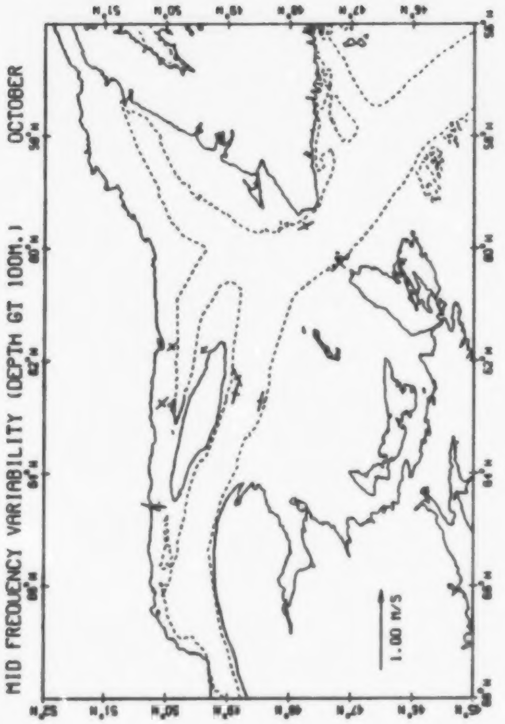

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
MAY
1.00 M/S

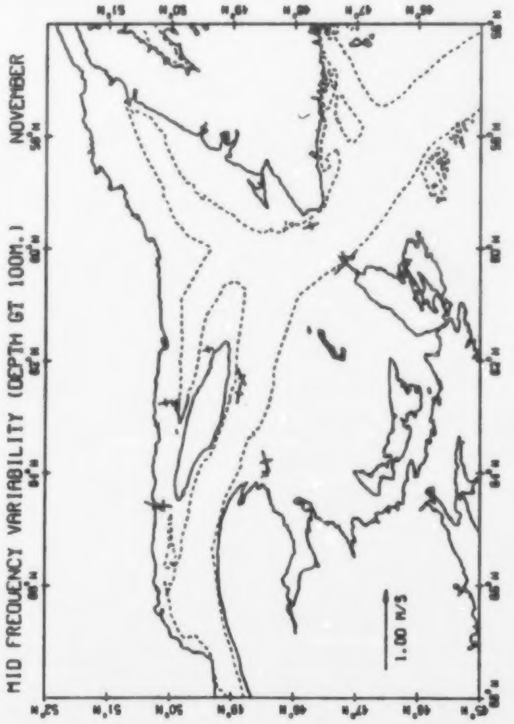

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
JUNE
1.00 M/S

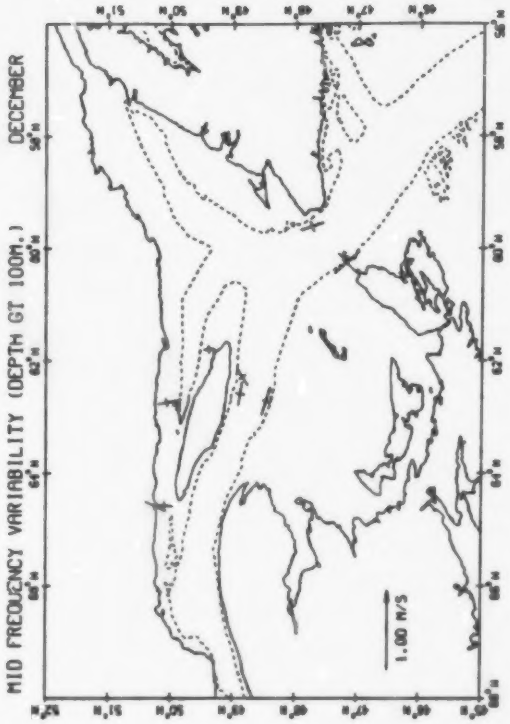

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
JULY
1.00 M/S

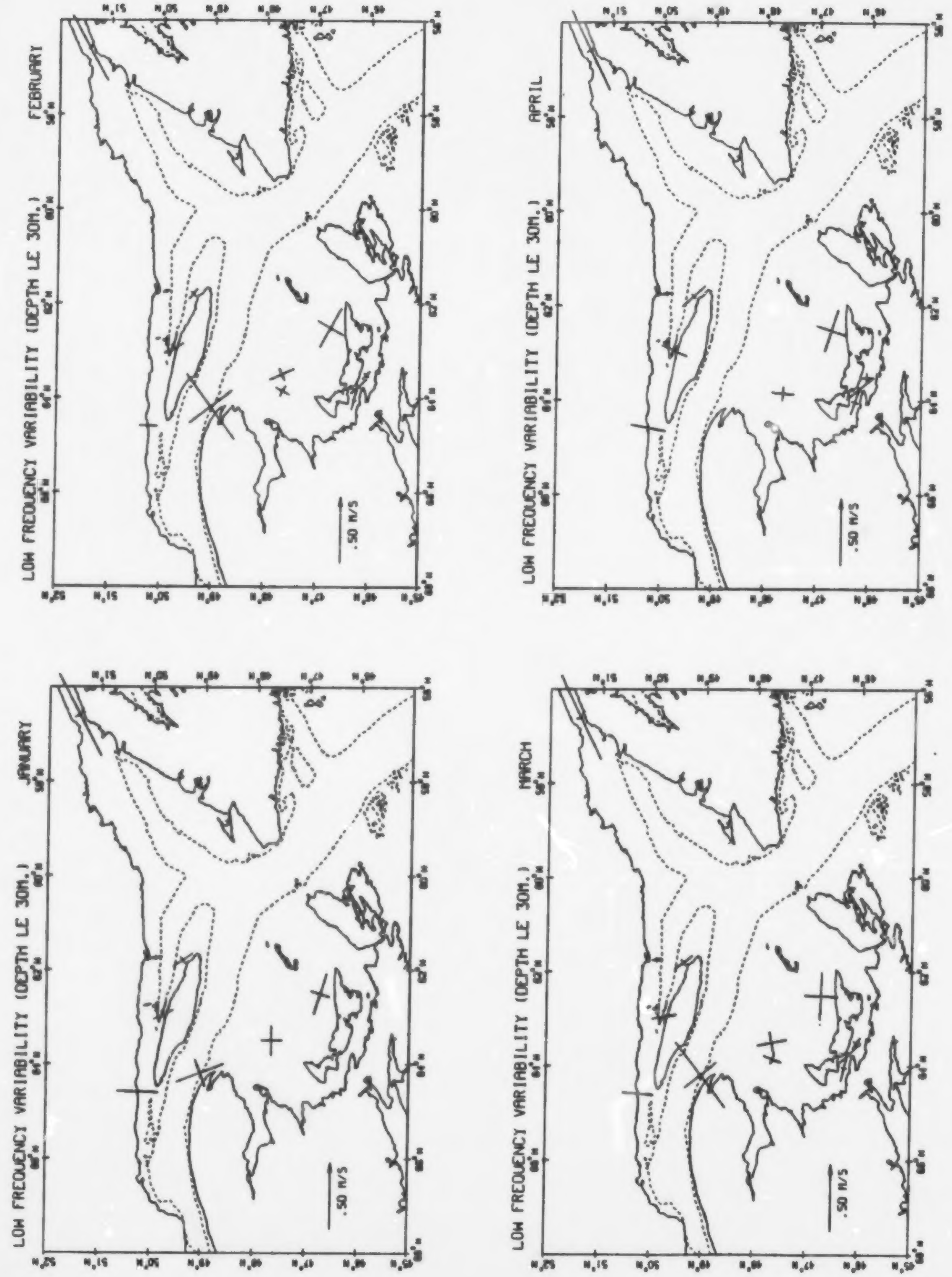

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
AUGUST
1.00 M/S

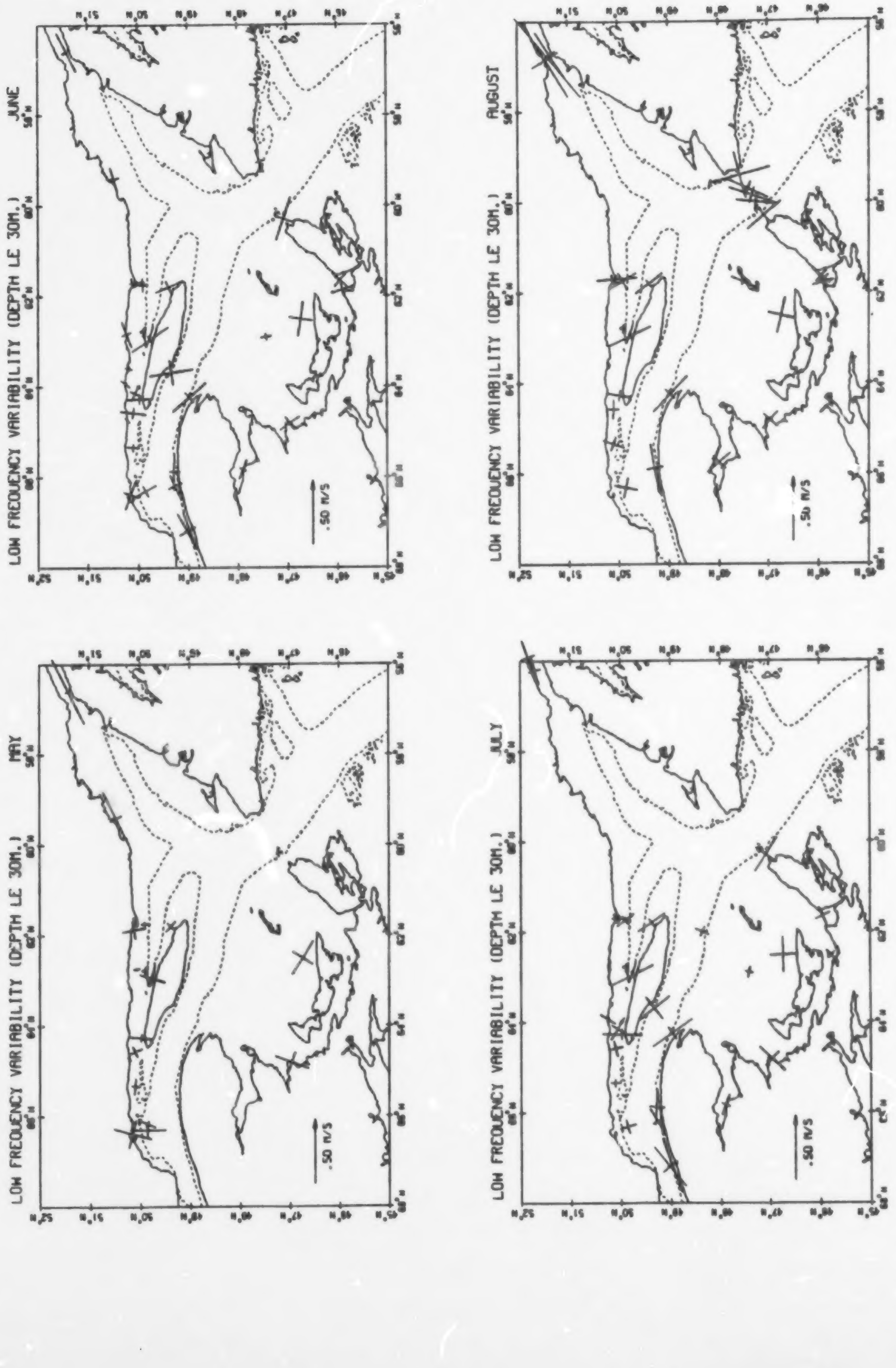

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
SEPTEMBER
1.00 M/S

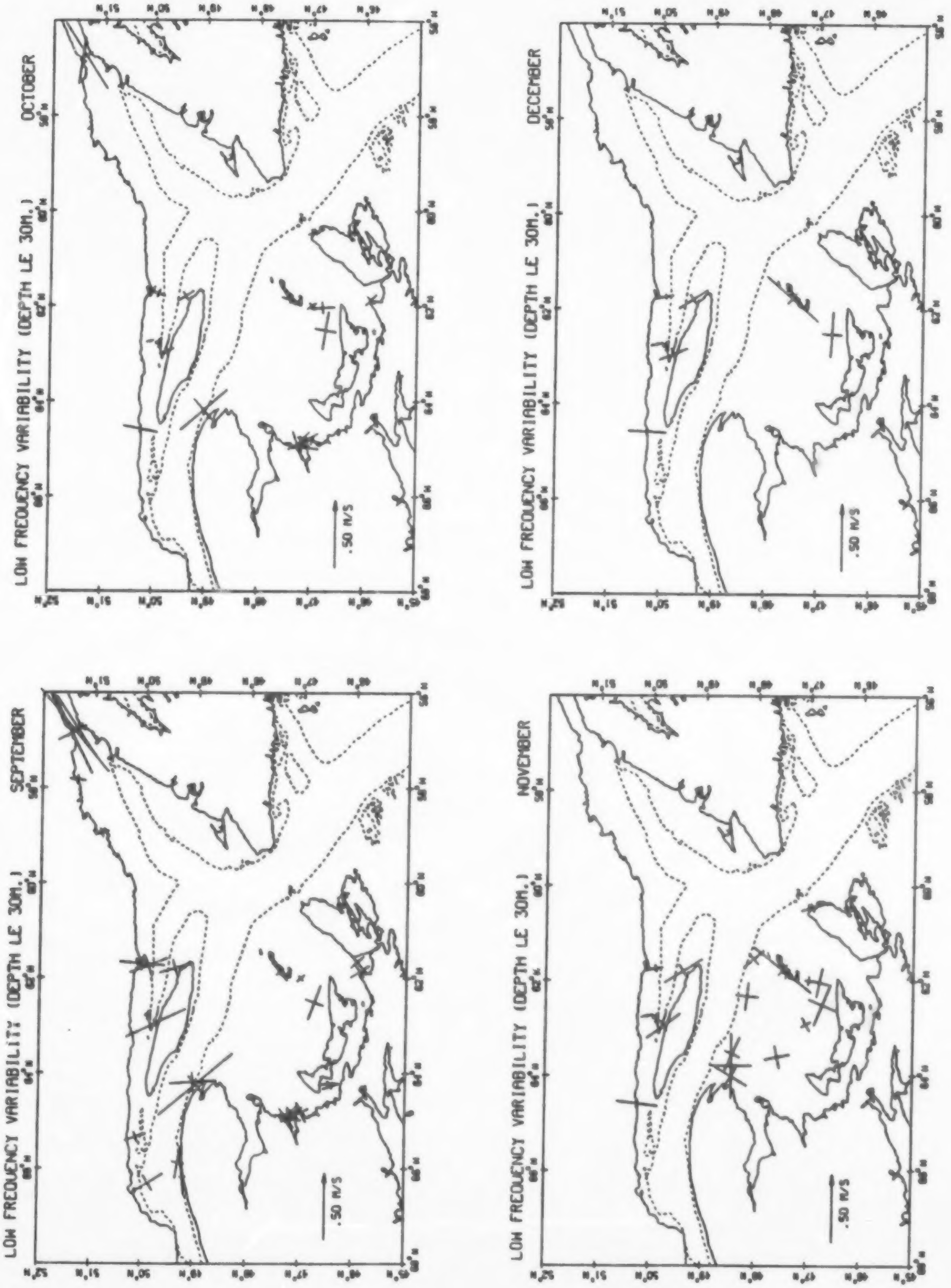

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
OCTOBER
1.00 M/S

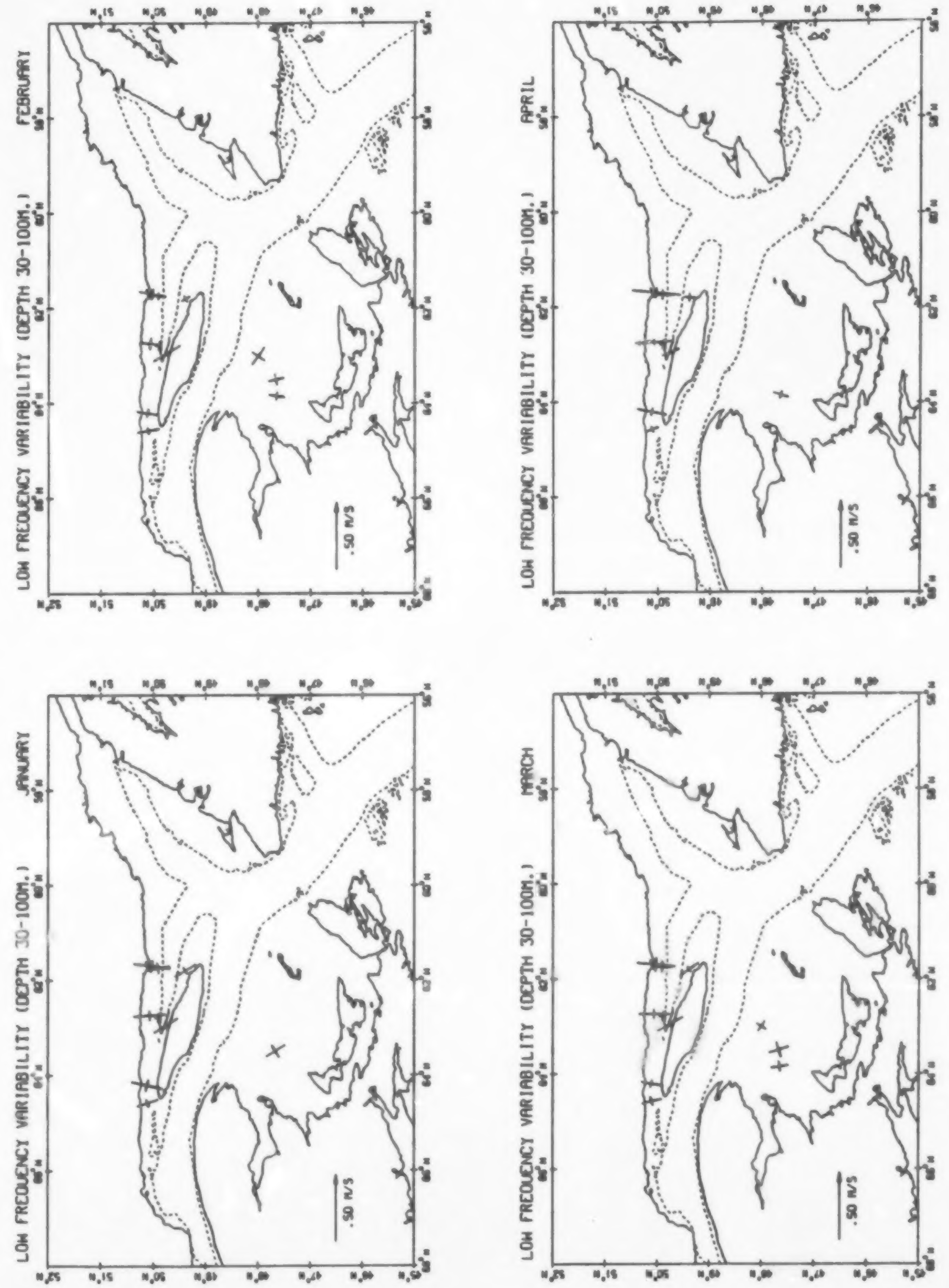

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
NOVEMBER
1.00 M/S

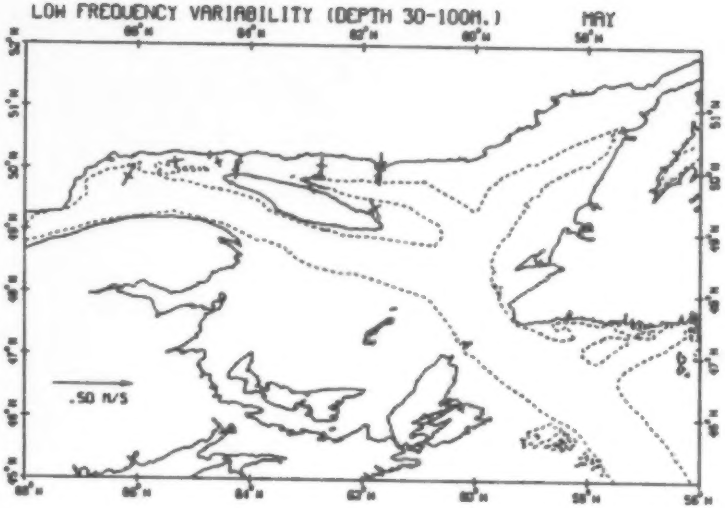

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
DECEMBER
1.00 M/S

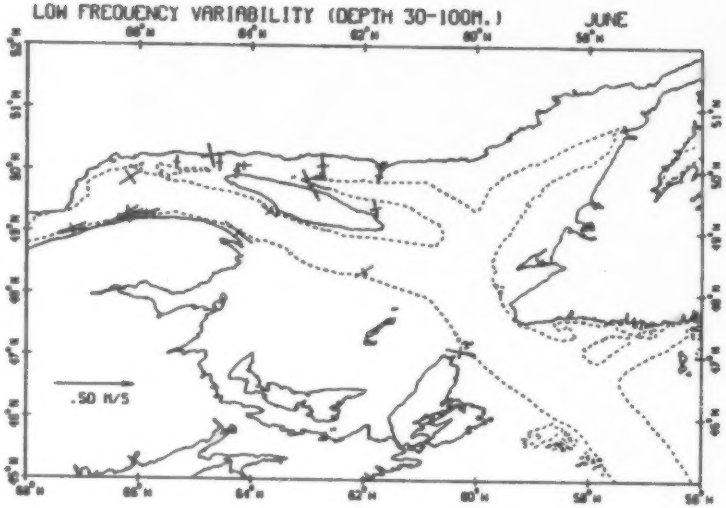

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JANUARY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
FEBRUARY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
MARCH
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
APRIL
.50 M/S

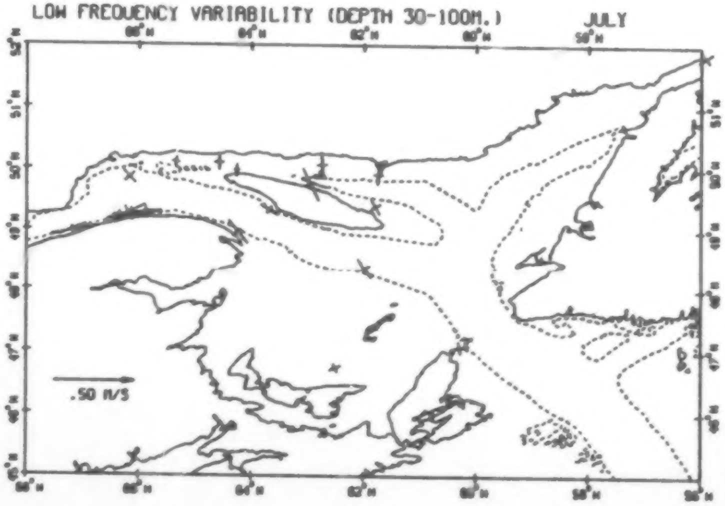

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JUNE
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
AUGUST
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
MAY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JULY
.50 M/S

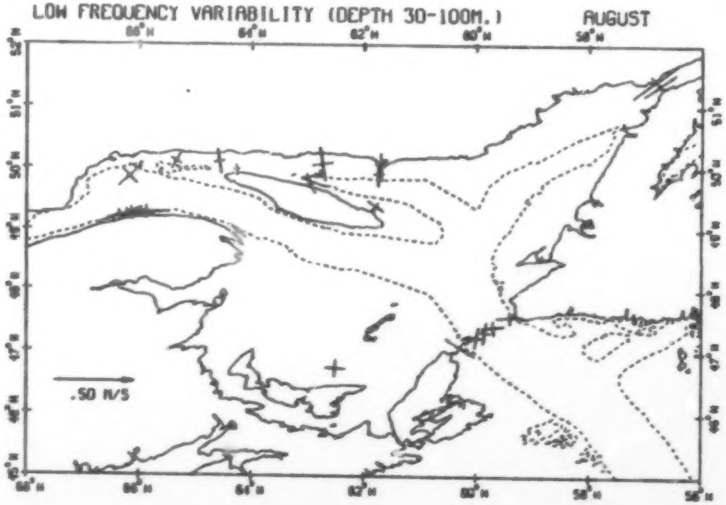

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
DECEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
NOVEMBER
.50 M/S

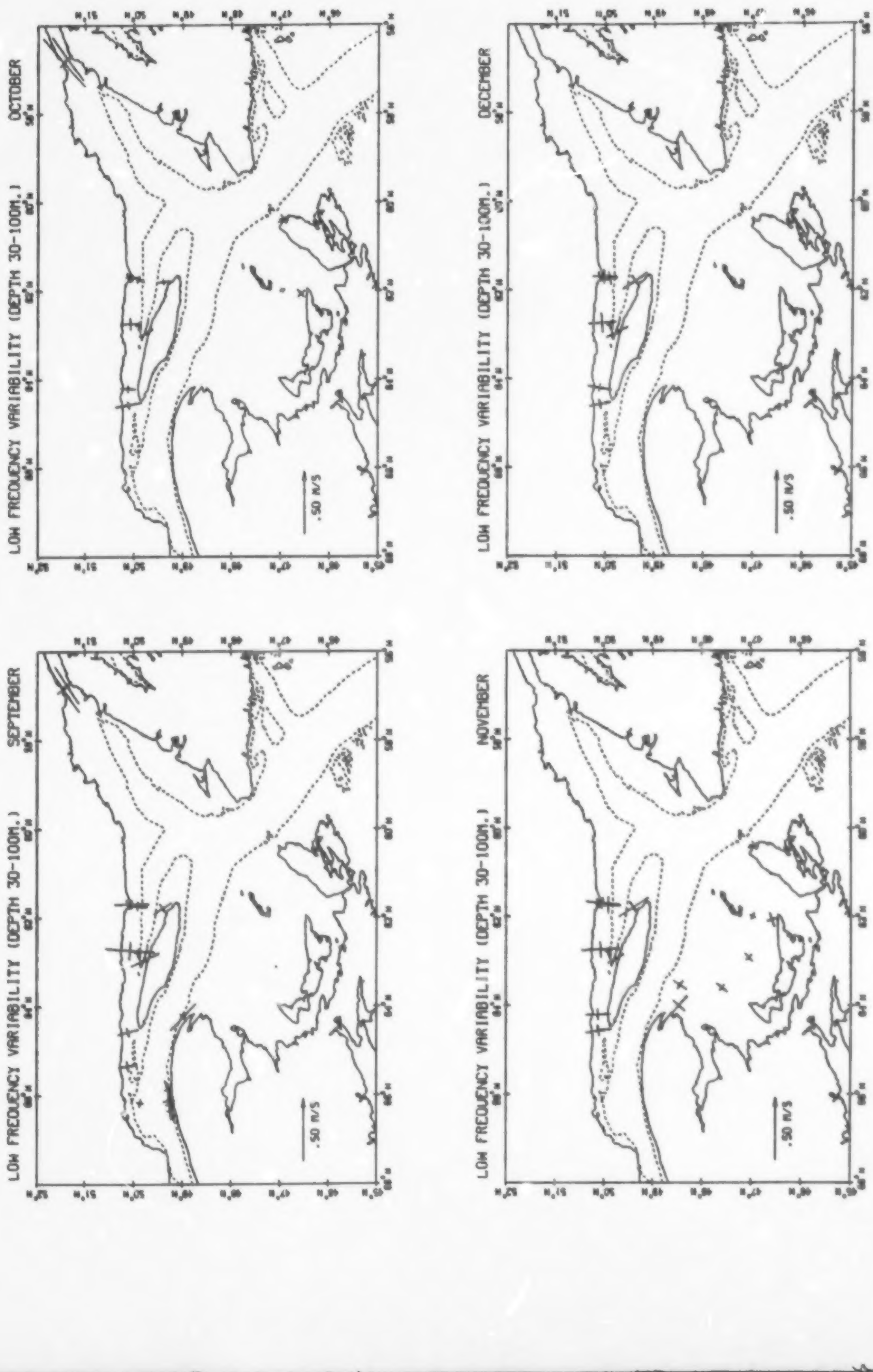

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JANUARY
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) FEBRUARY
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) MARCH
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) APRIL
.50 M/S

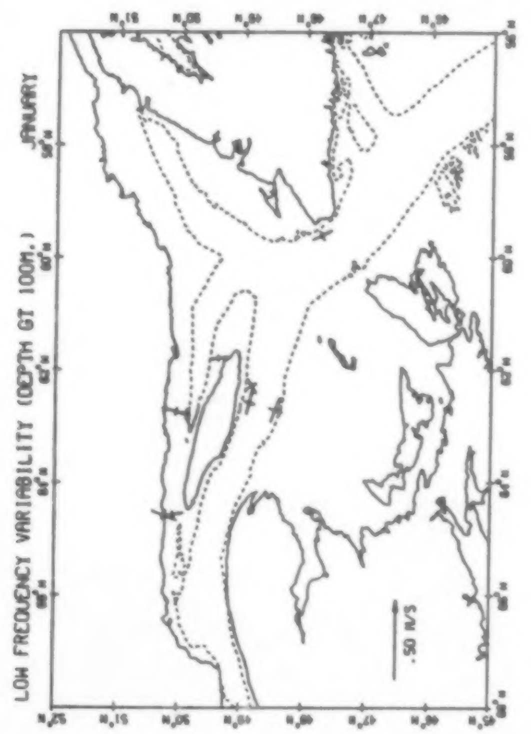

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
MAY
.50 M/S

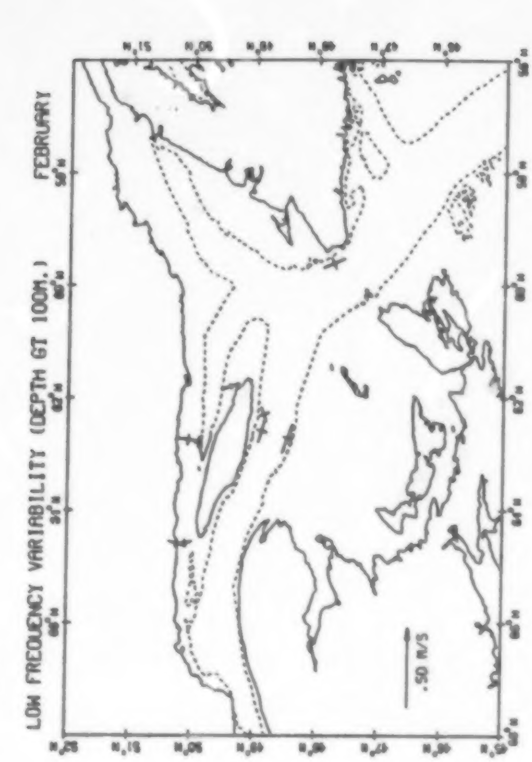

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
JUNE
.50 M/S

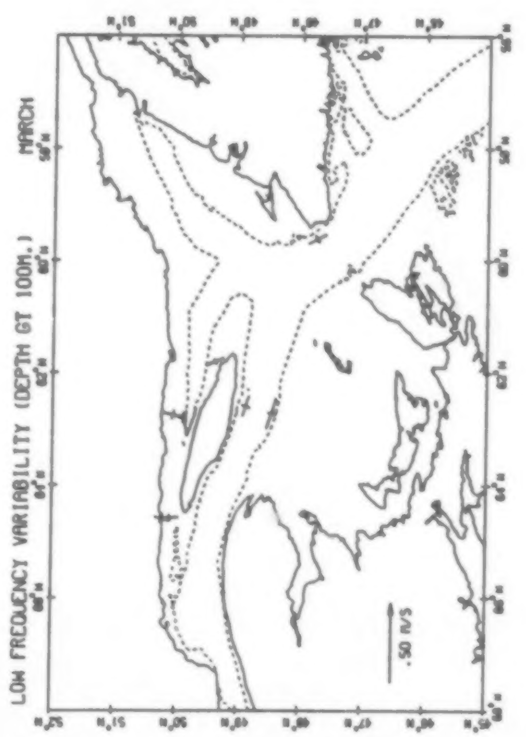

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
JULY
.50 M/S

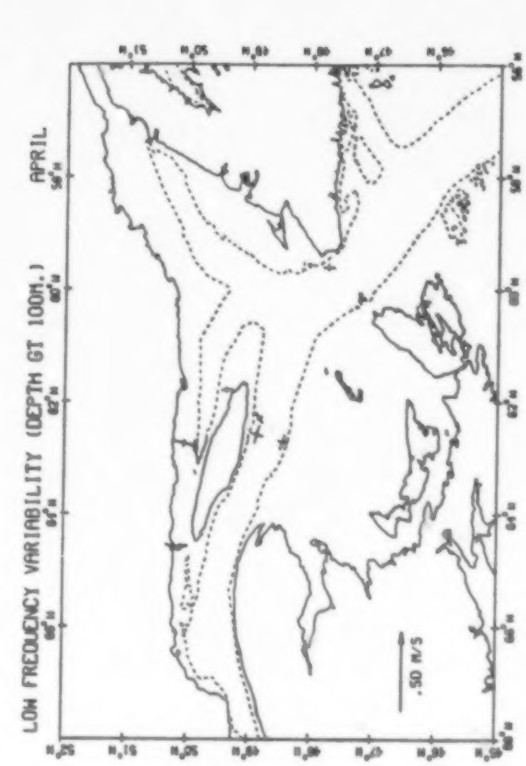

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
AUGUST
.50 M/S

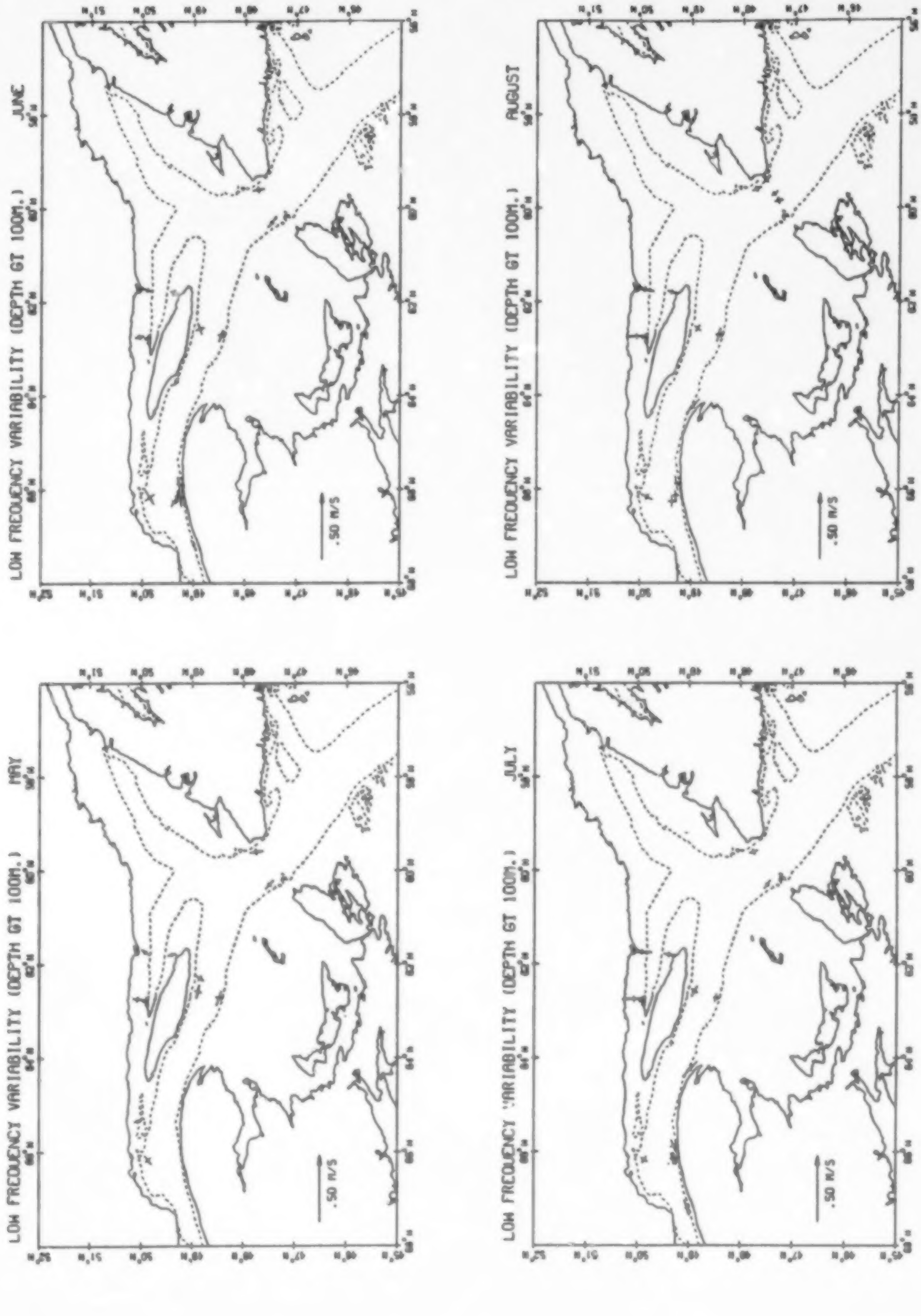

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
OCTOBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
DECEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
SEPTEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
NOVEMBER
.50 M/S

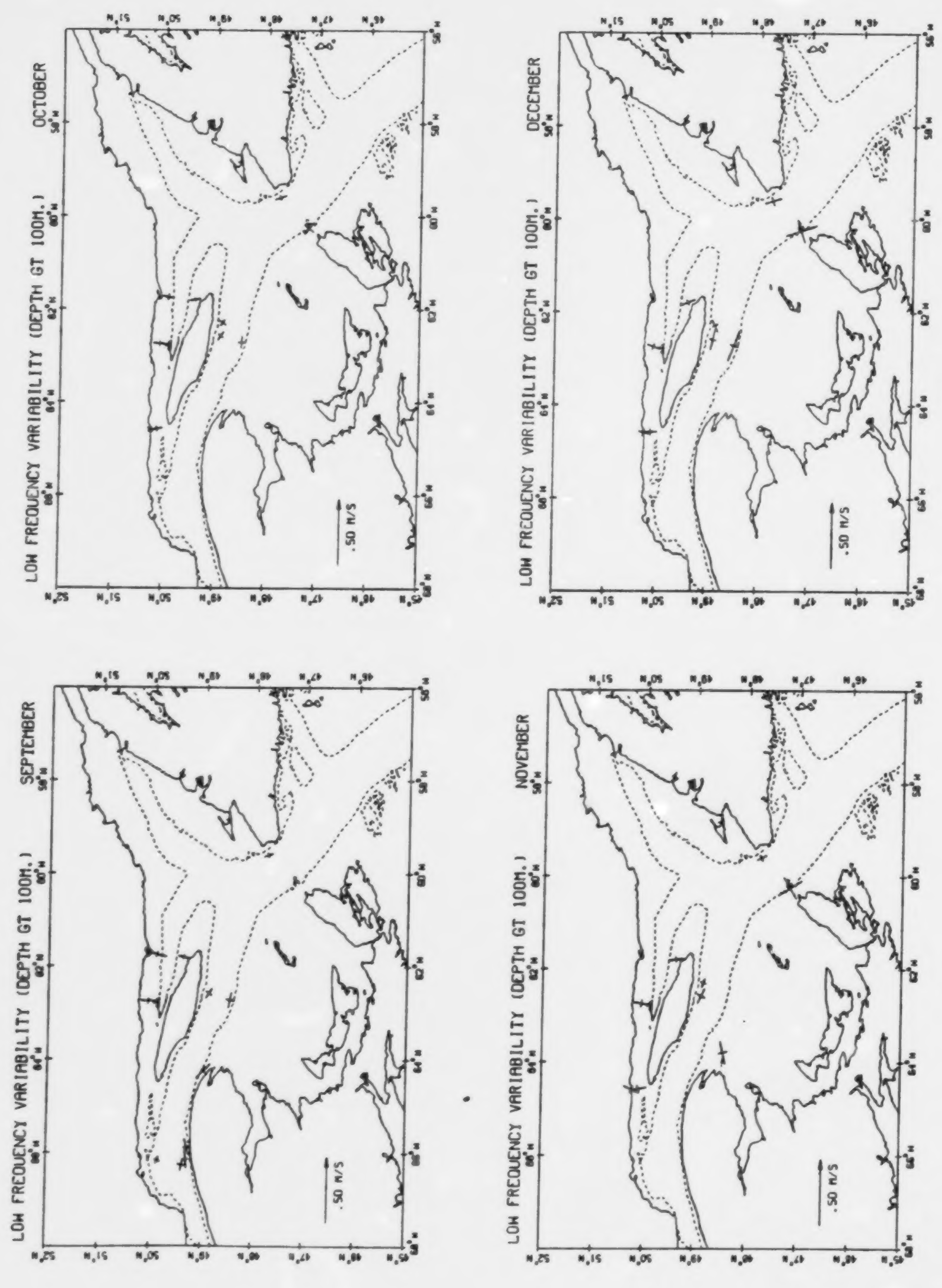

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
JANUARY
.50 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
FEBRUARY
.50 M/S

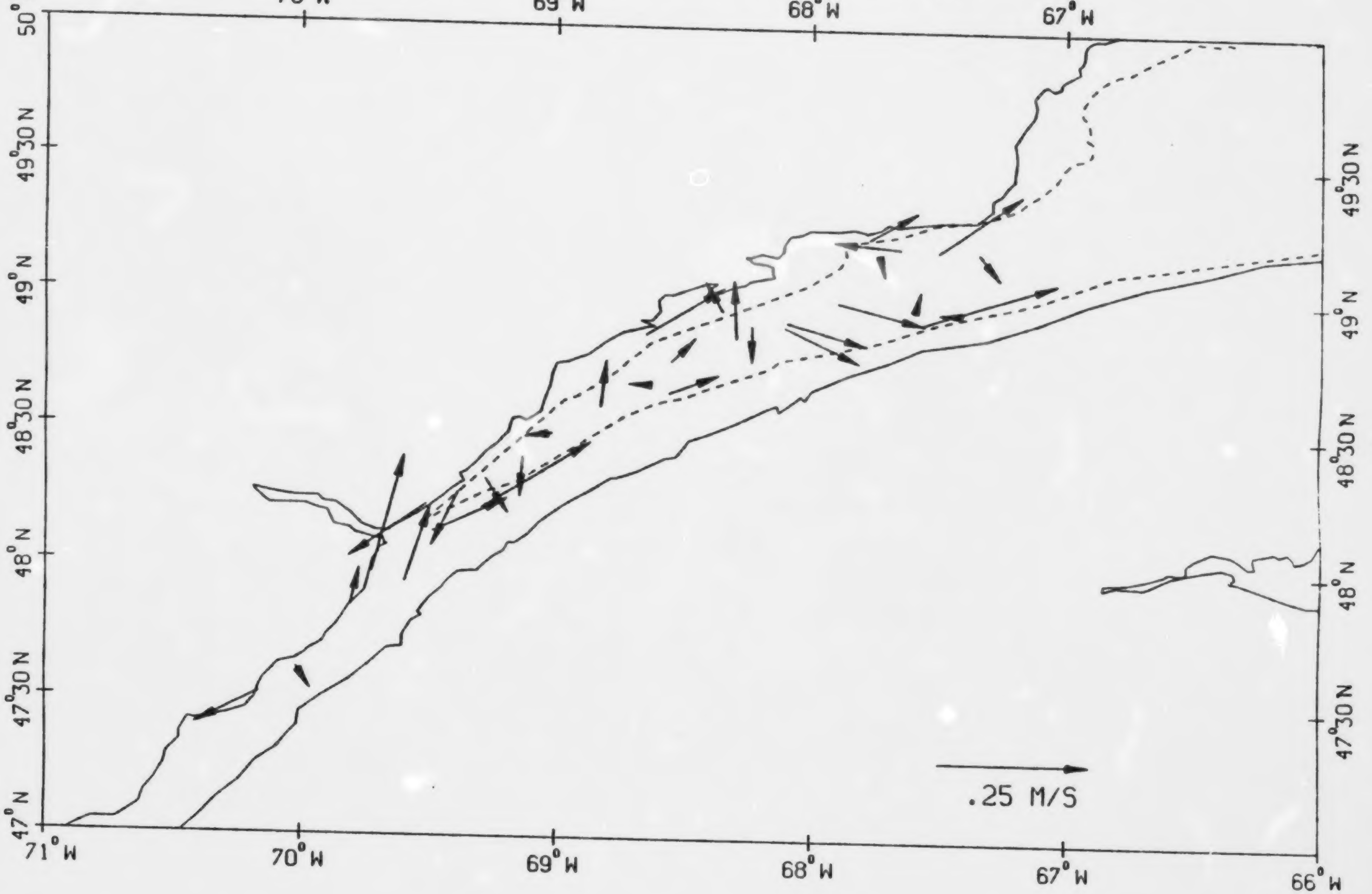

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
MARCH
.50 M/S

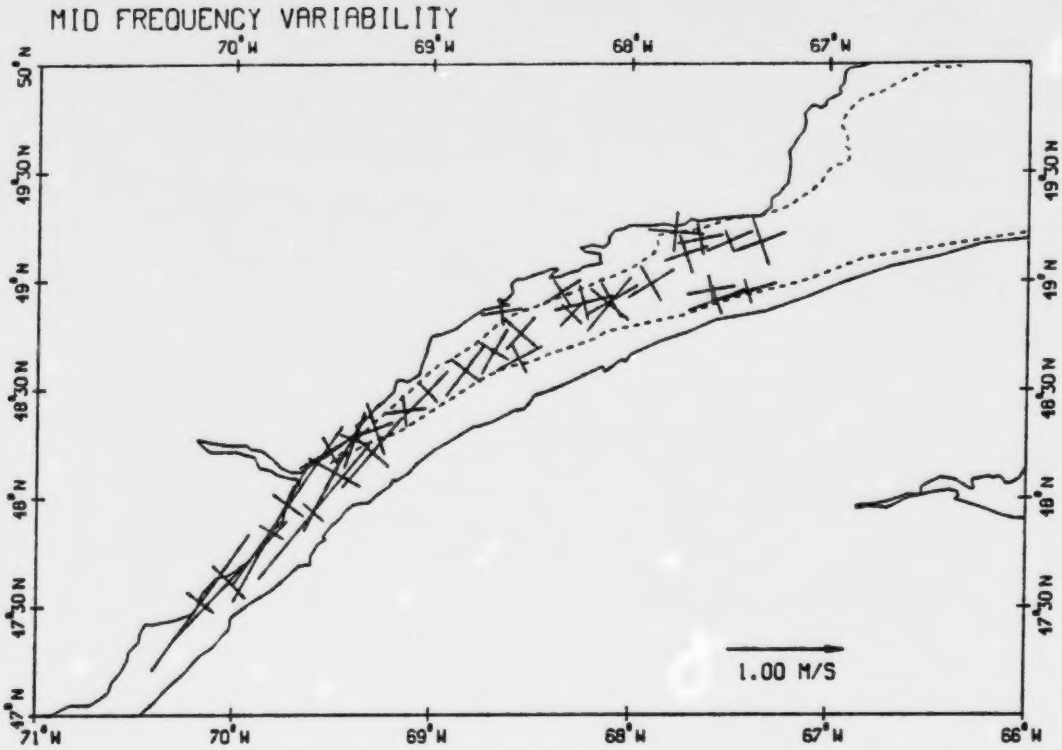

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
APRIL
.50 M/S

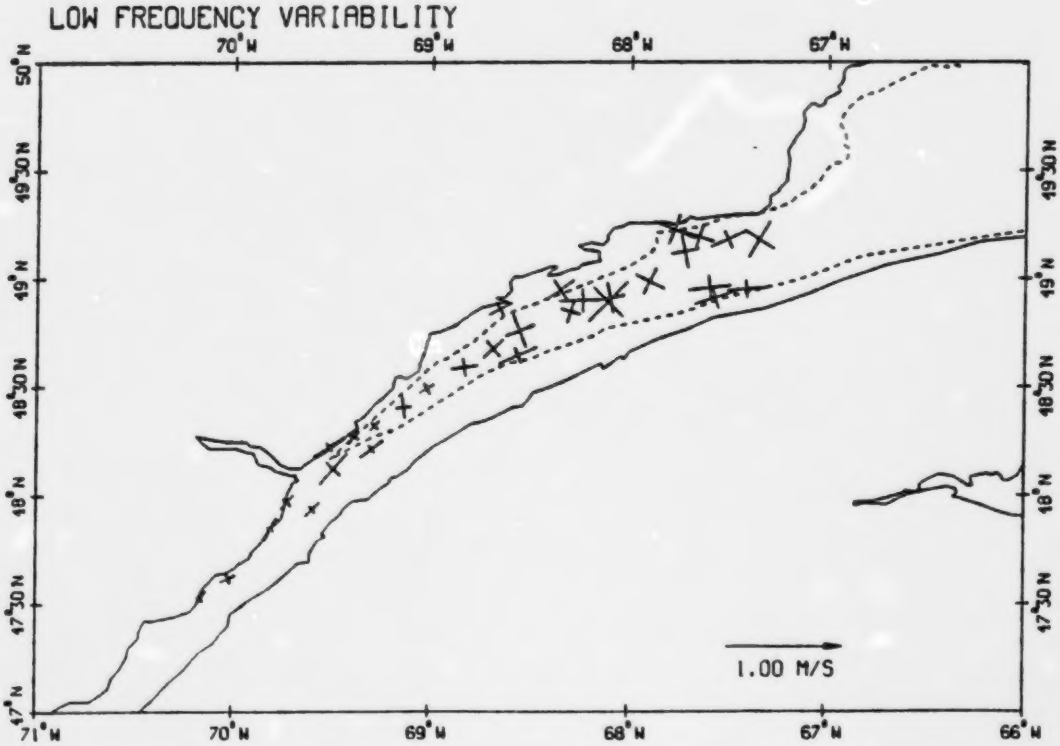

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
MAY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
JUNE
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
JULY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
AUGUST
.50 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) OCTOBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) NOVEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) DECEMBER
.50 M/S

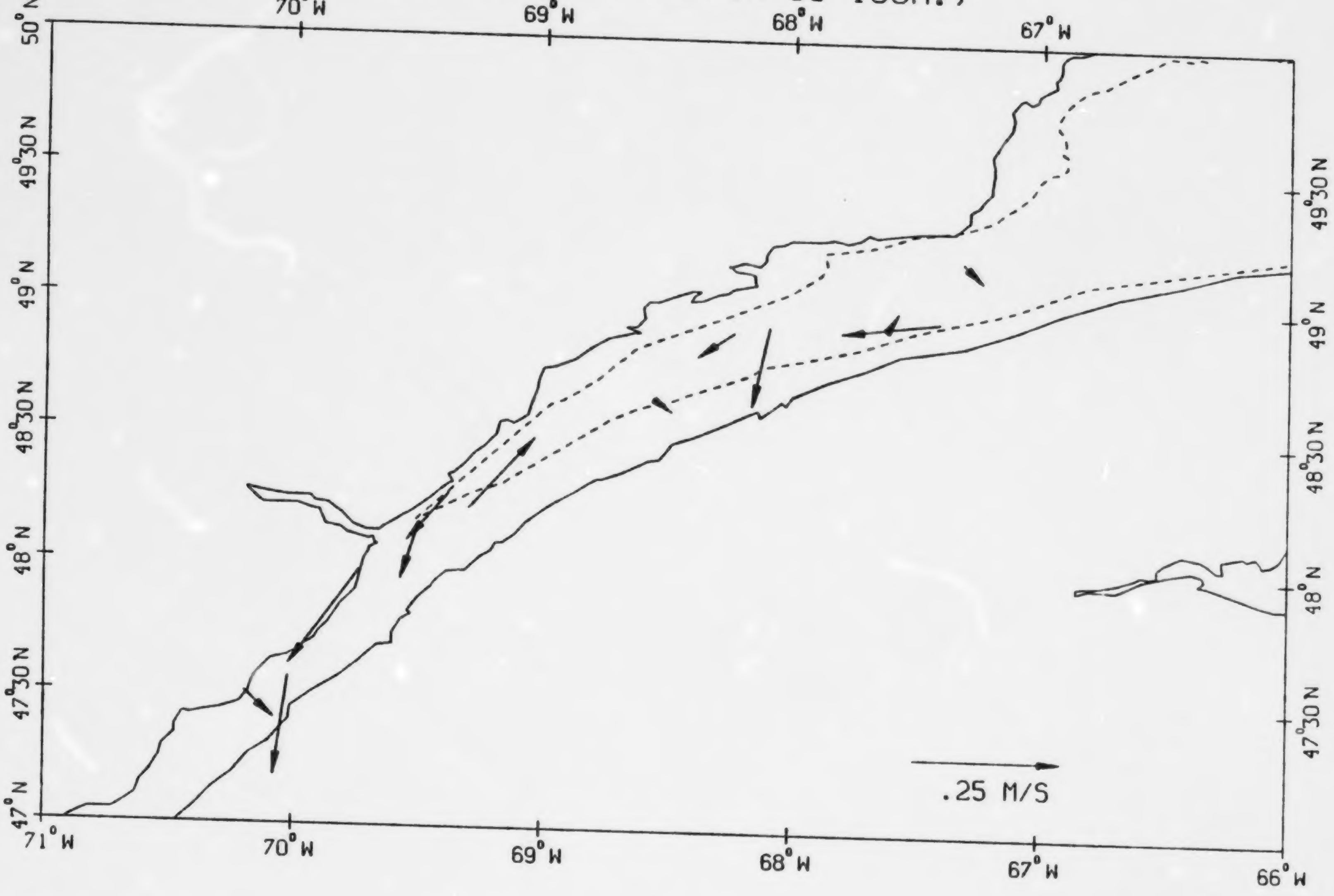
ESTUARY ANNUAL MEAN CURRENT (DEPTH LE 30M.)



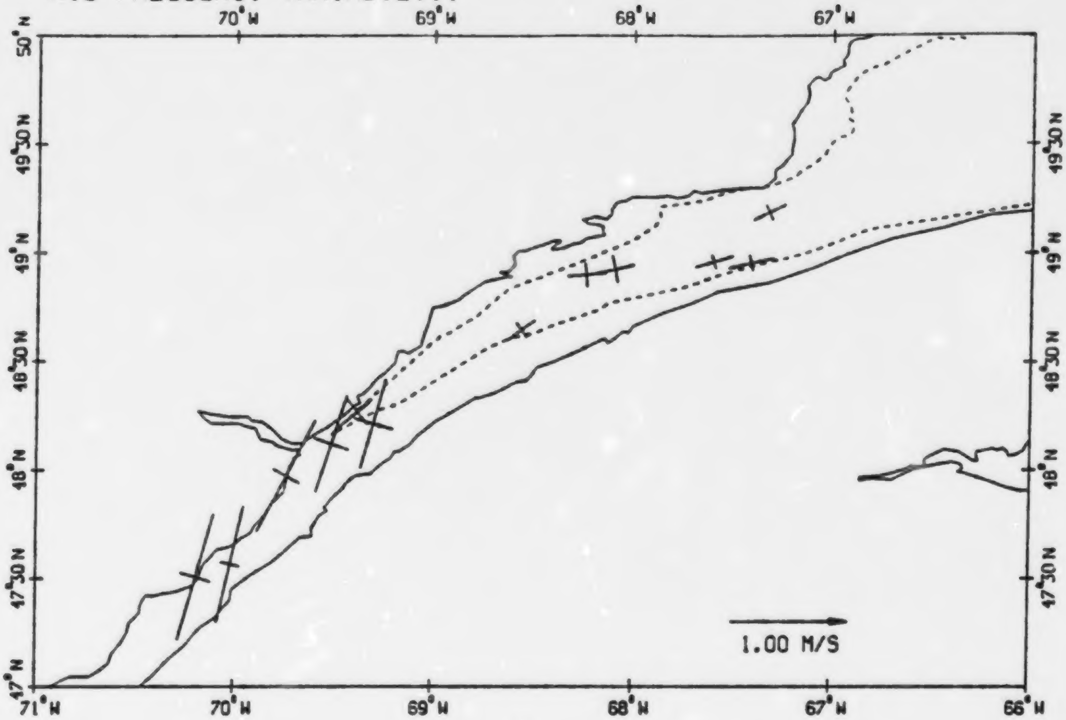

MID FREQUENCY VARIABILITY
70°W
69°W
68°W
67°W
50°N
49°30N
49°N
48°30N
48°N
47°30N
47°N
1.00 M/S
71°W
66°W


LOW FREQUENCY VARIABILITY
70°W
69°W
68°W
67°W
50°N
49°30N
49°N
48°30N
48°N
47°30N
47°N
1.00 M/S
71°W
66°W

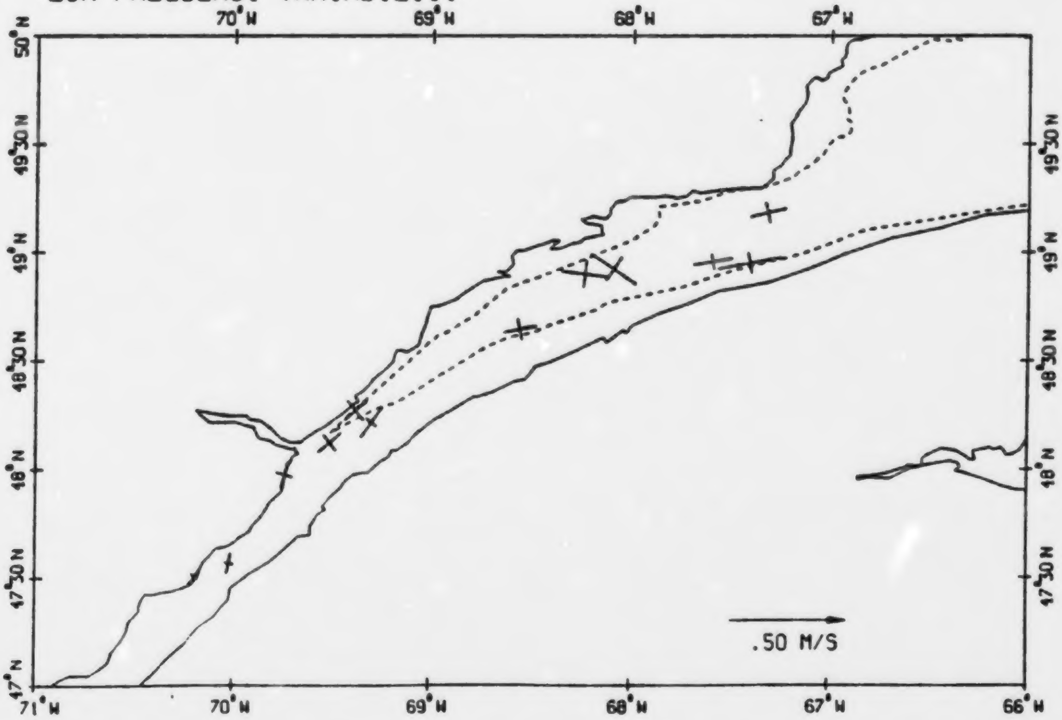
ESTUARY ANNUAL MEAN CURRENT (DEPTH 30-100M.)



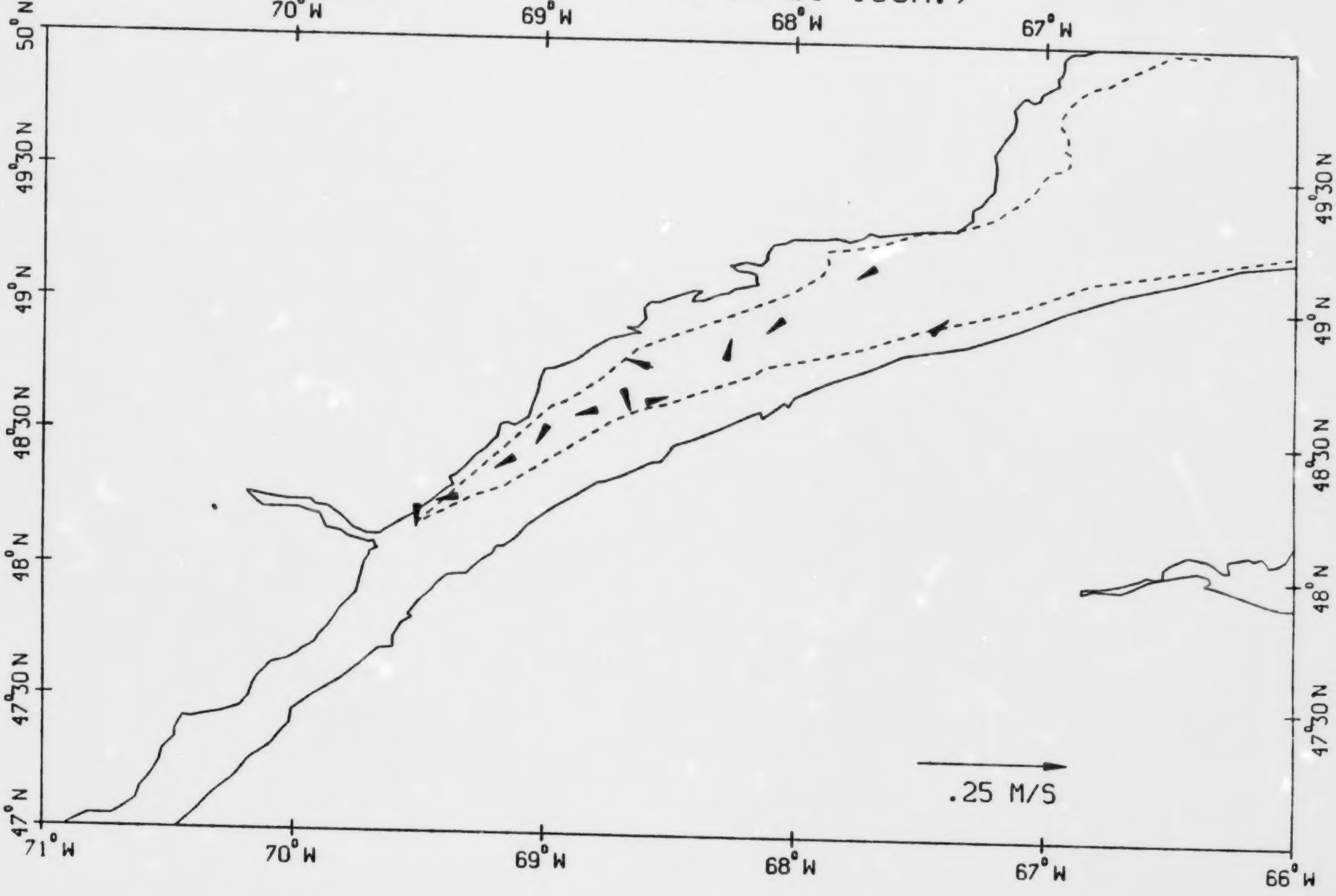
MID FREQUENCY VARIABILITY

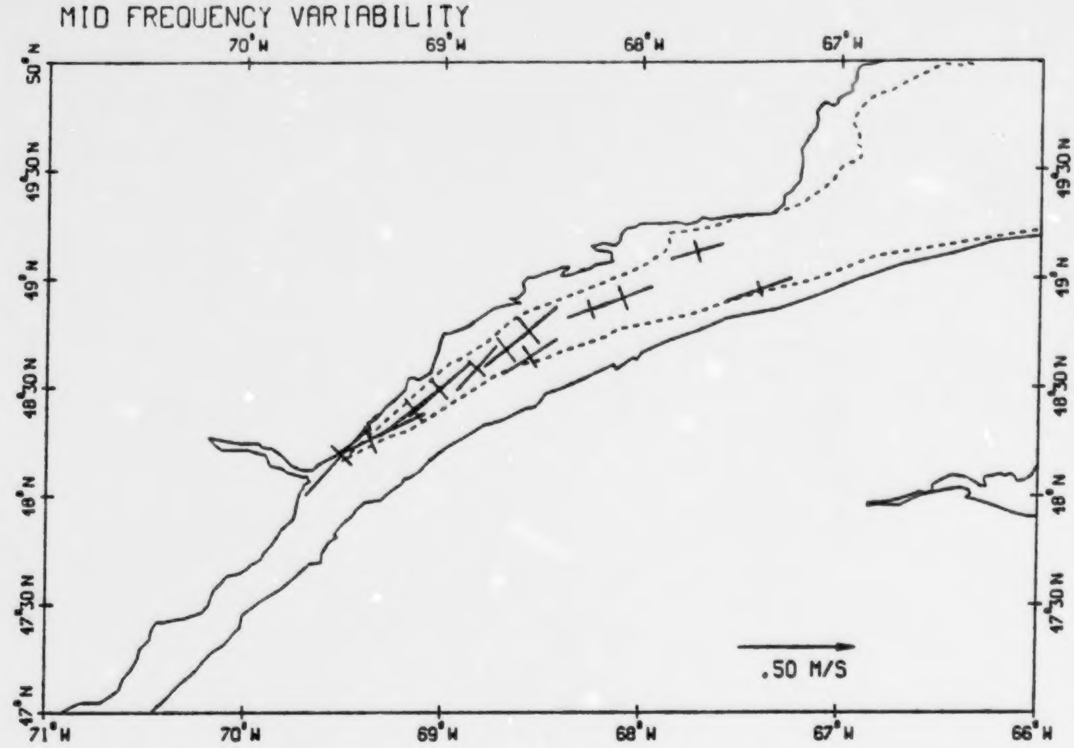


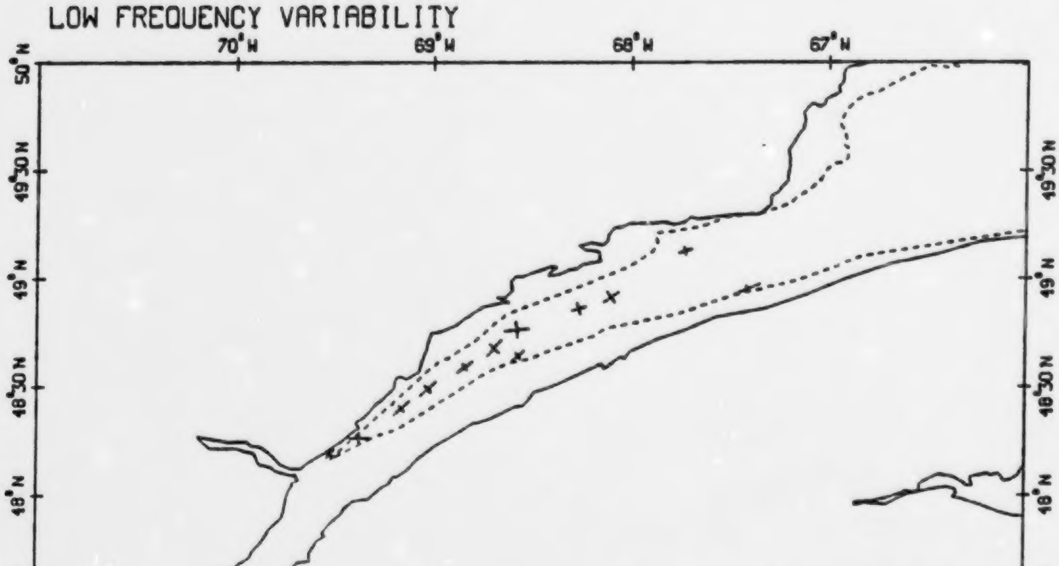
LOW FREQUENCY VARIABILITY

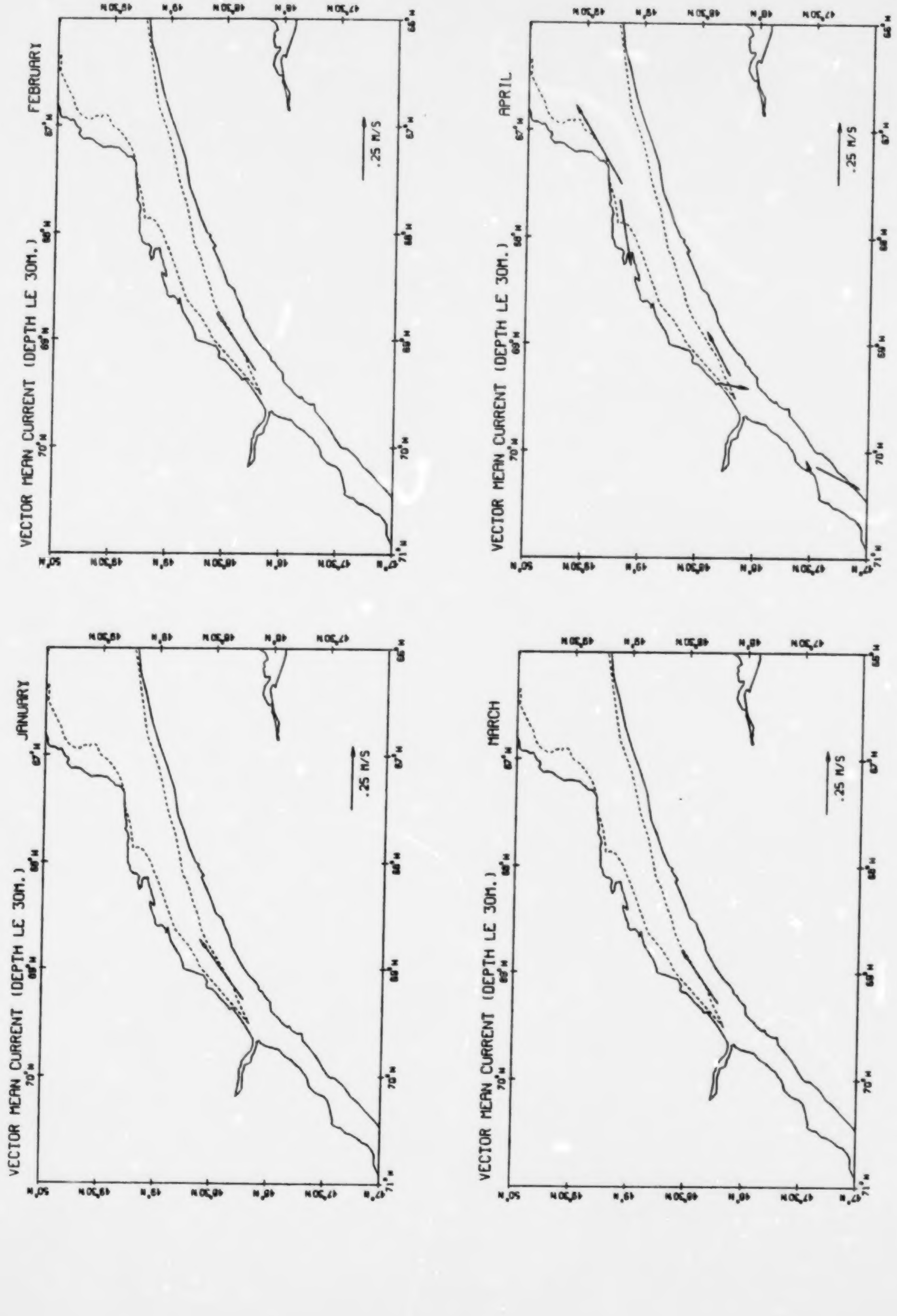


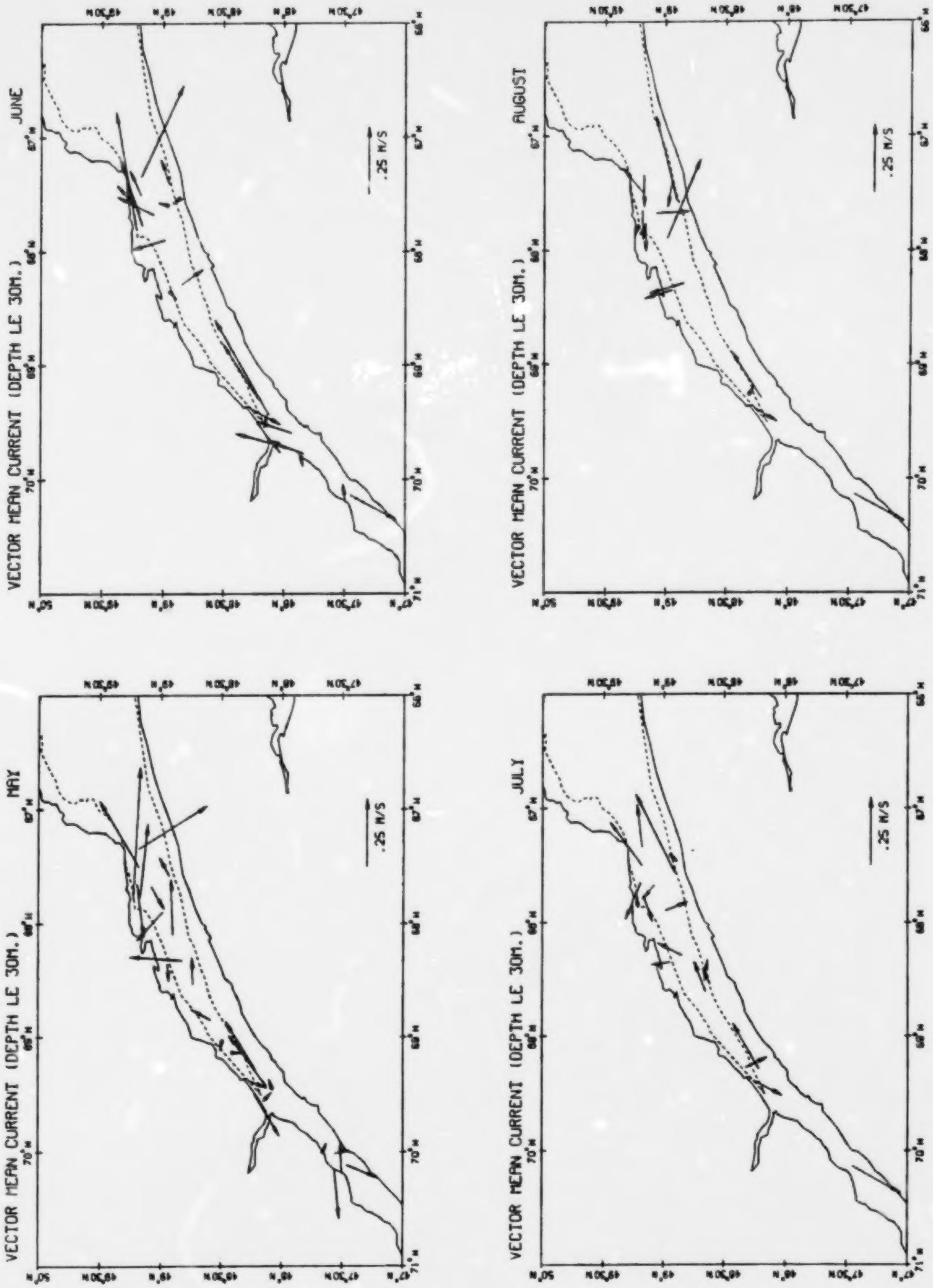
ESTUARY ANNUAL MEAN CURRENT (DEPTH GT 100M.)

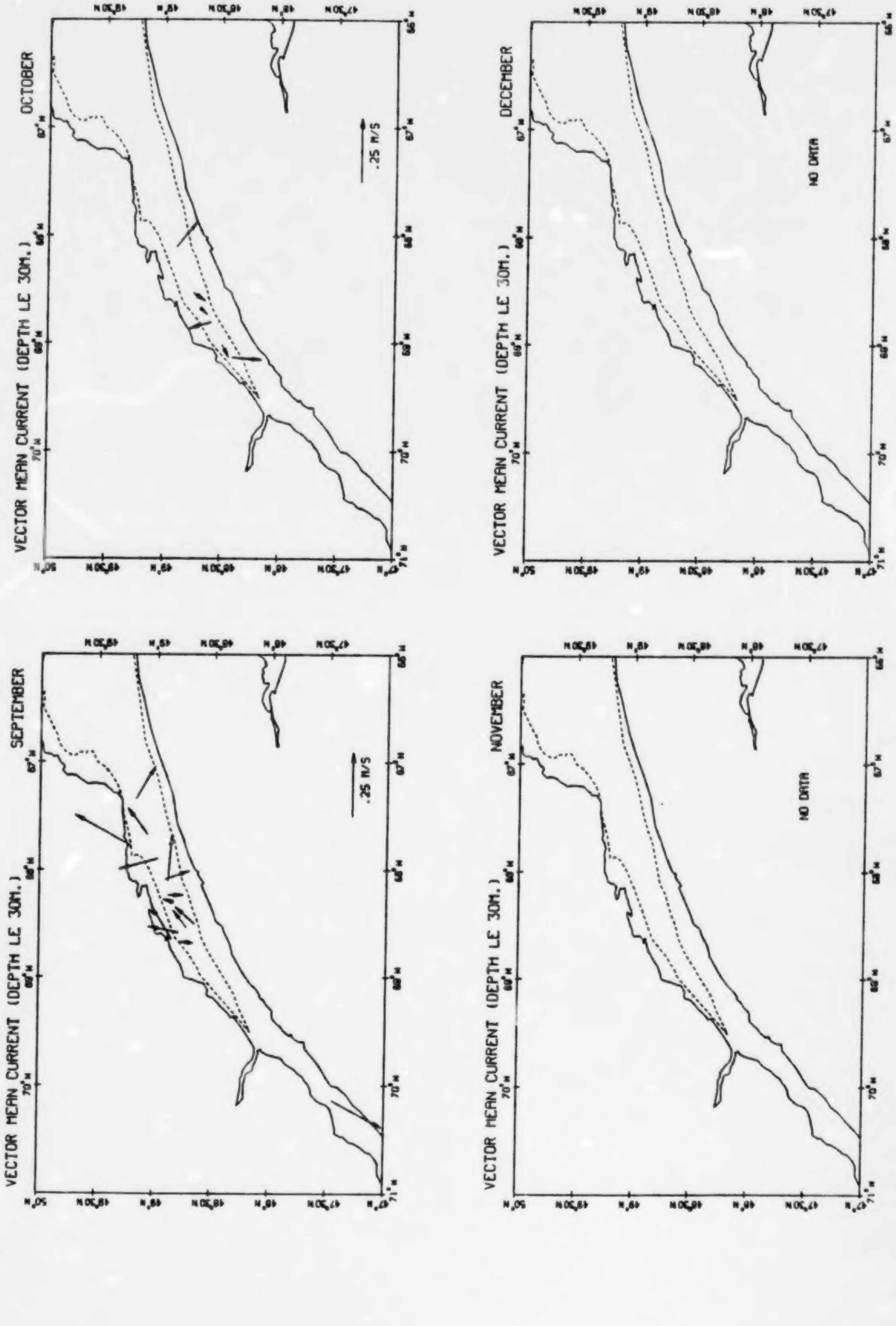


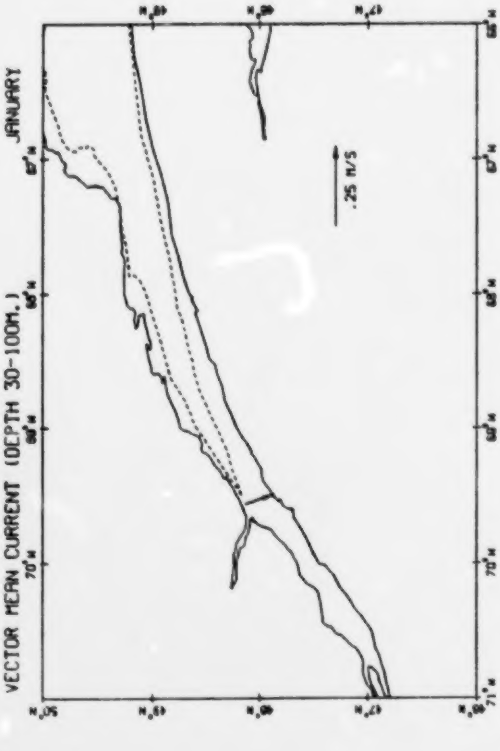

MID FREQUENCY VARIABILITY
70°W
69°W
68°W
67°W
50°N
49°30N
49°N
48°30N
48°N
47°30N
47°N
.50 M/S
71°W
70°W
69°W
68°W
67°W
66°W

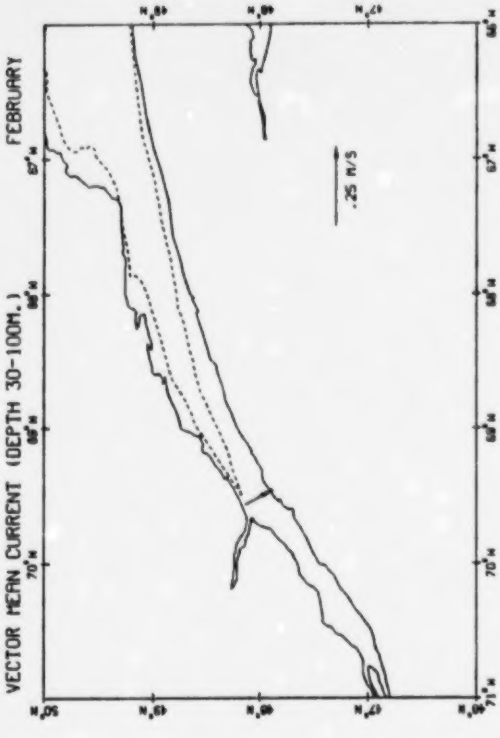

LOW FREQUENCY VARIABILITY
70°W
69°W
68°W
67°W
50°N
49°30N
49°N
48°30N
48°N
47°30N
47°N
.50 M/S
71°W
70°W
69°W
68°W
67°W
66°W

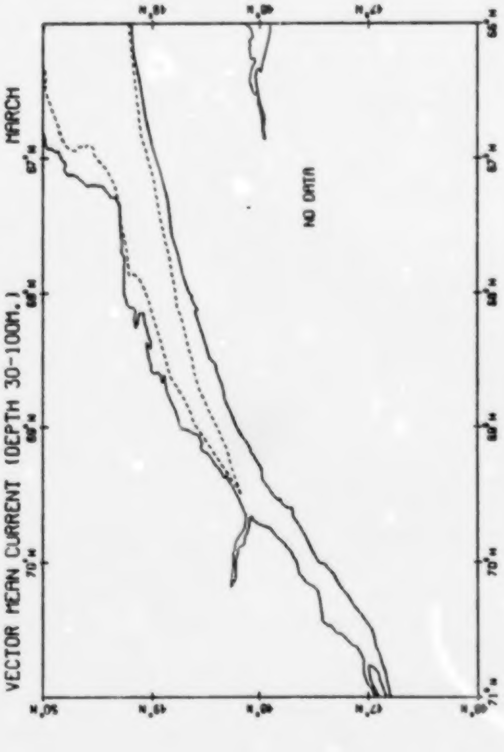

VECTOR MEAN CURRENT (DEPTH LE 30M.)
FEBRUARY
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
APRIL
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
JANUARY
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
MARCH
.25 M/S

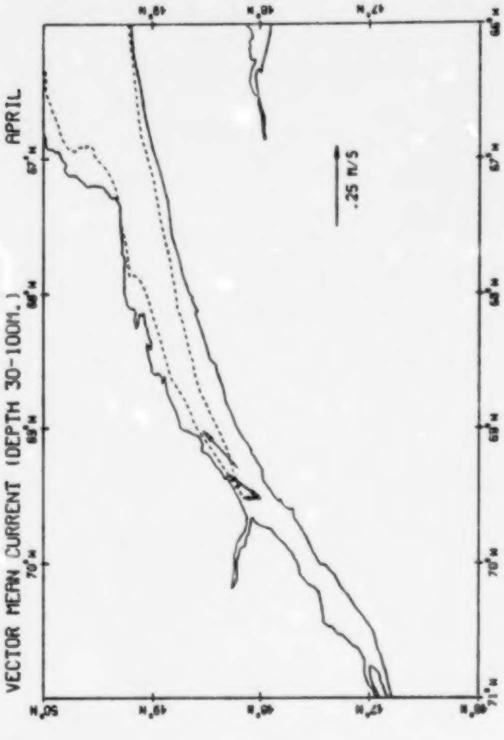

VECTOR MEAN CURRENT (DEPTH LE 30M.) JUNE
VECTOR MEAN CURRENT (DEPTH LE 30M.) AUGUST
VECTOR MEAN CURRENT (DEPTH LE 30M.) MAY
VECTOR MEAN CURRENT (DEPTH LE 30M.) JULY
.25 M/S
.25 M/S
.25 M/S
.25 M/S

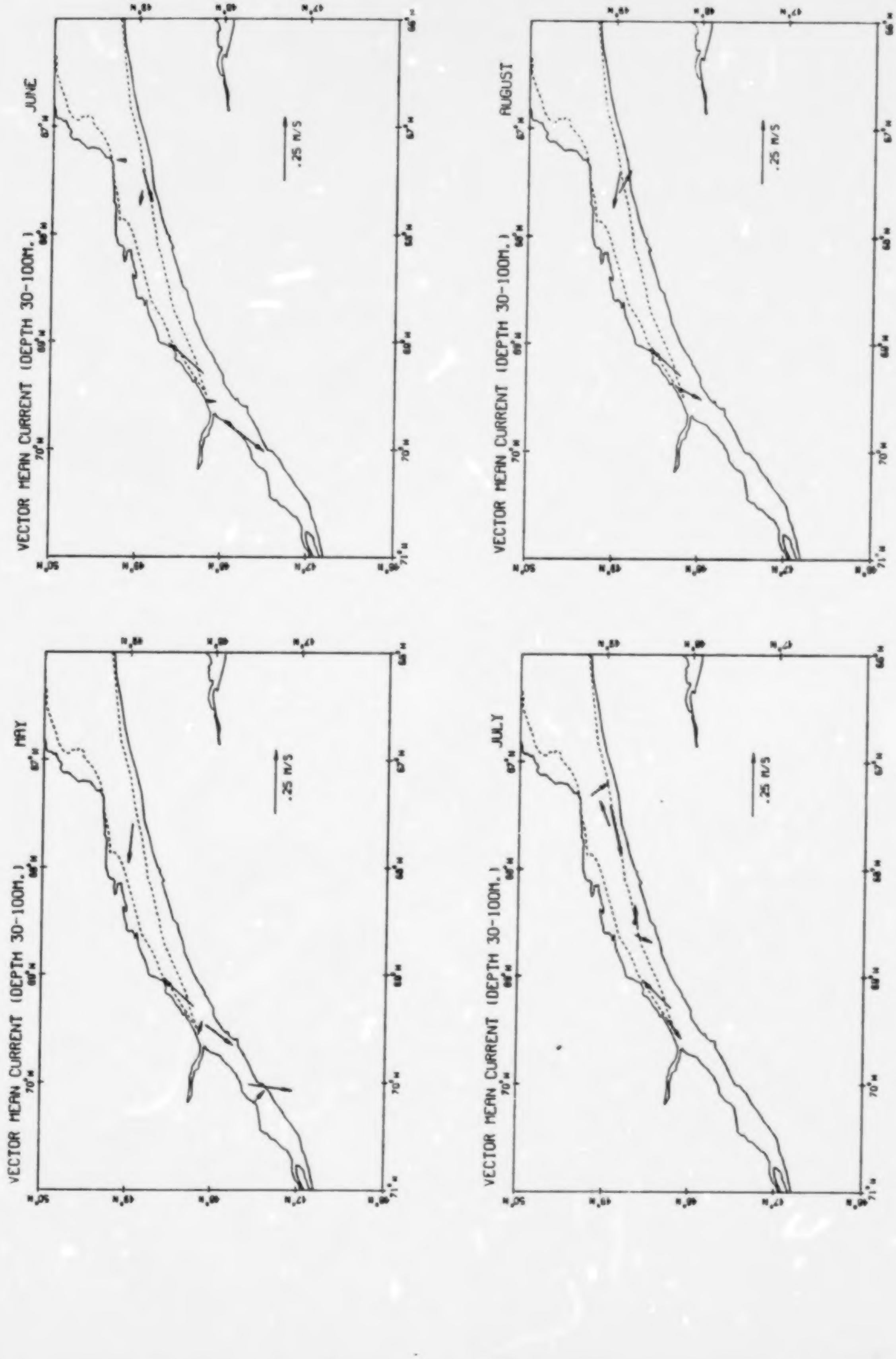

VECTOR MEAN CURRENT (DEPTH LE 30M.)
SEPTEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
OCTOBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
NOVEMBER
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
DECEMBER
NO DATA

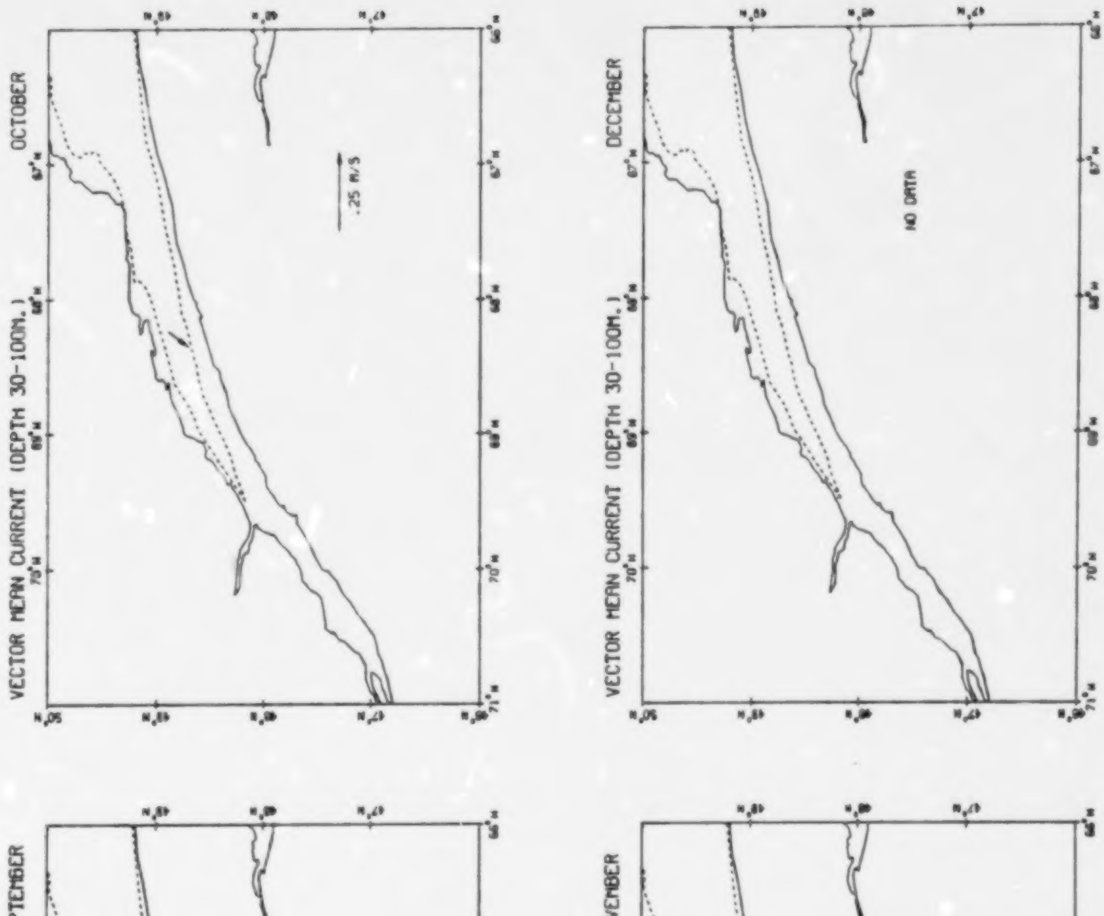

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JANUARY
.25 M/S

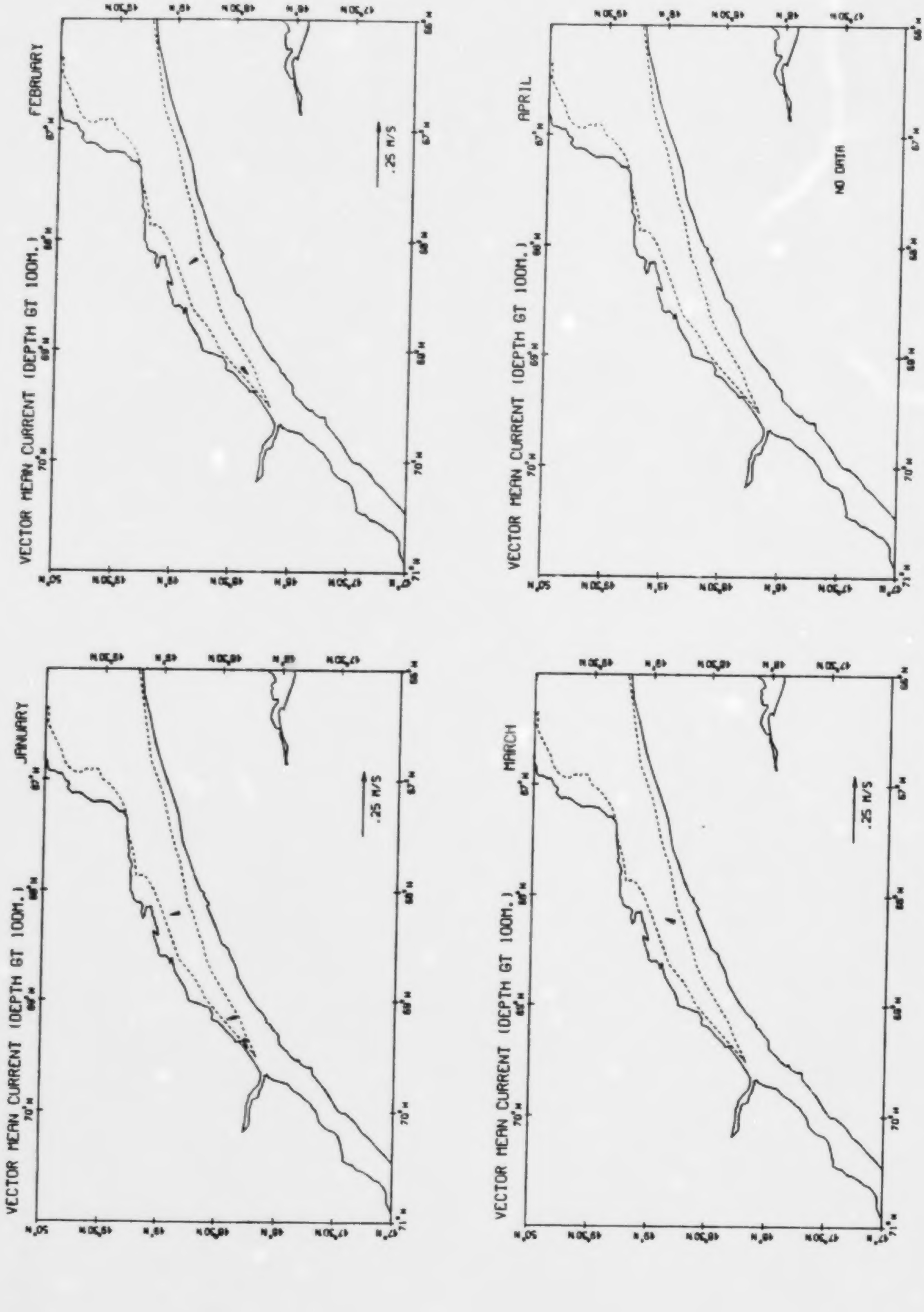

VECTOR MEAN CURRENT (DEPTH 30-100M.)
FEBRUARY
.25 M/S

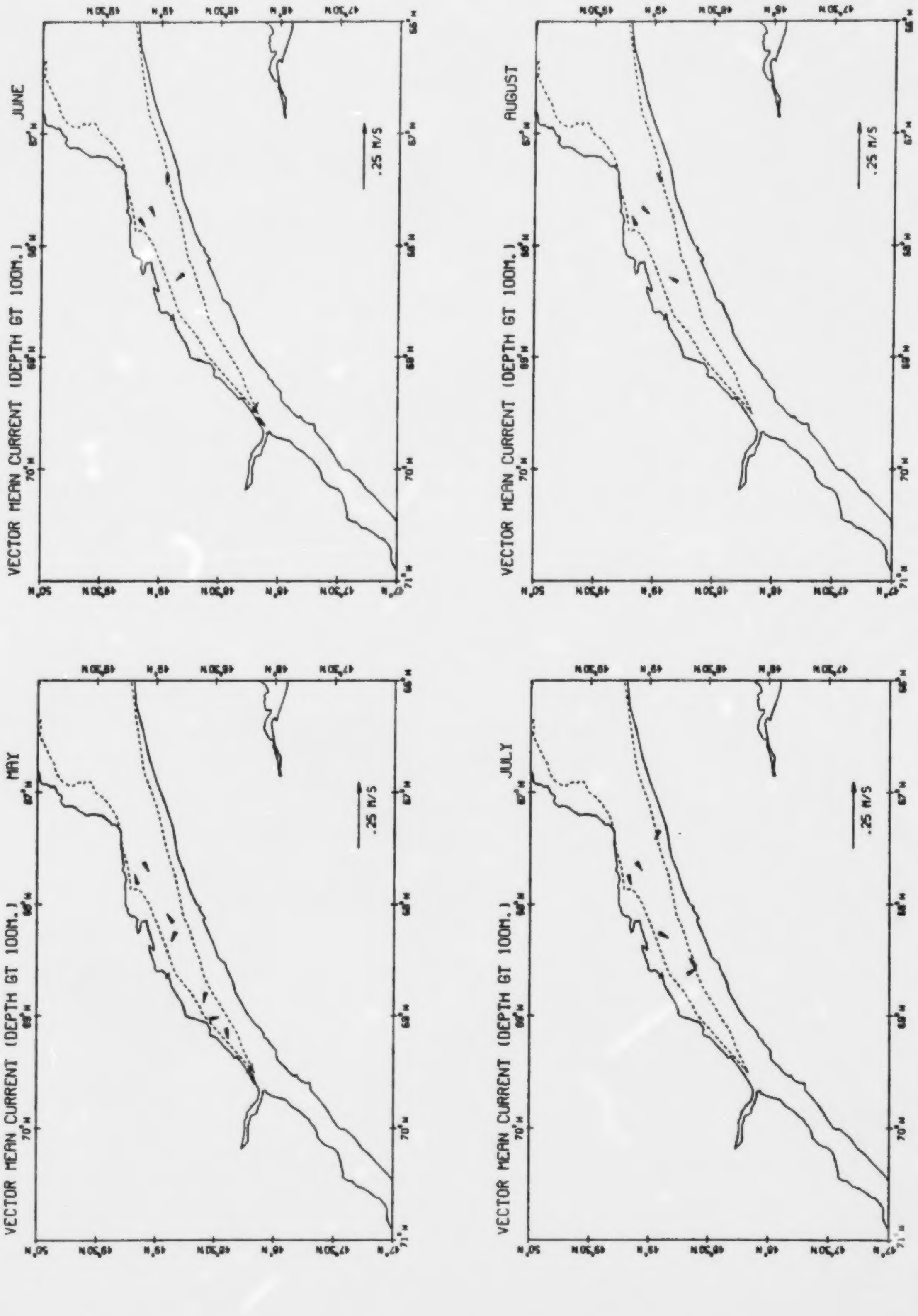

VECTOR MEAN CURRENT (DEPTH 30-100M.)
MARCH
NO DATA

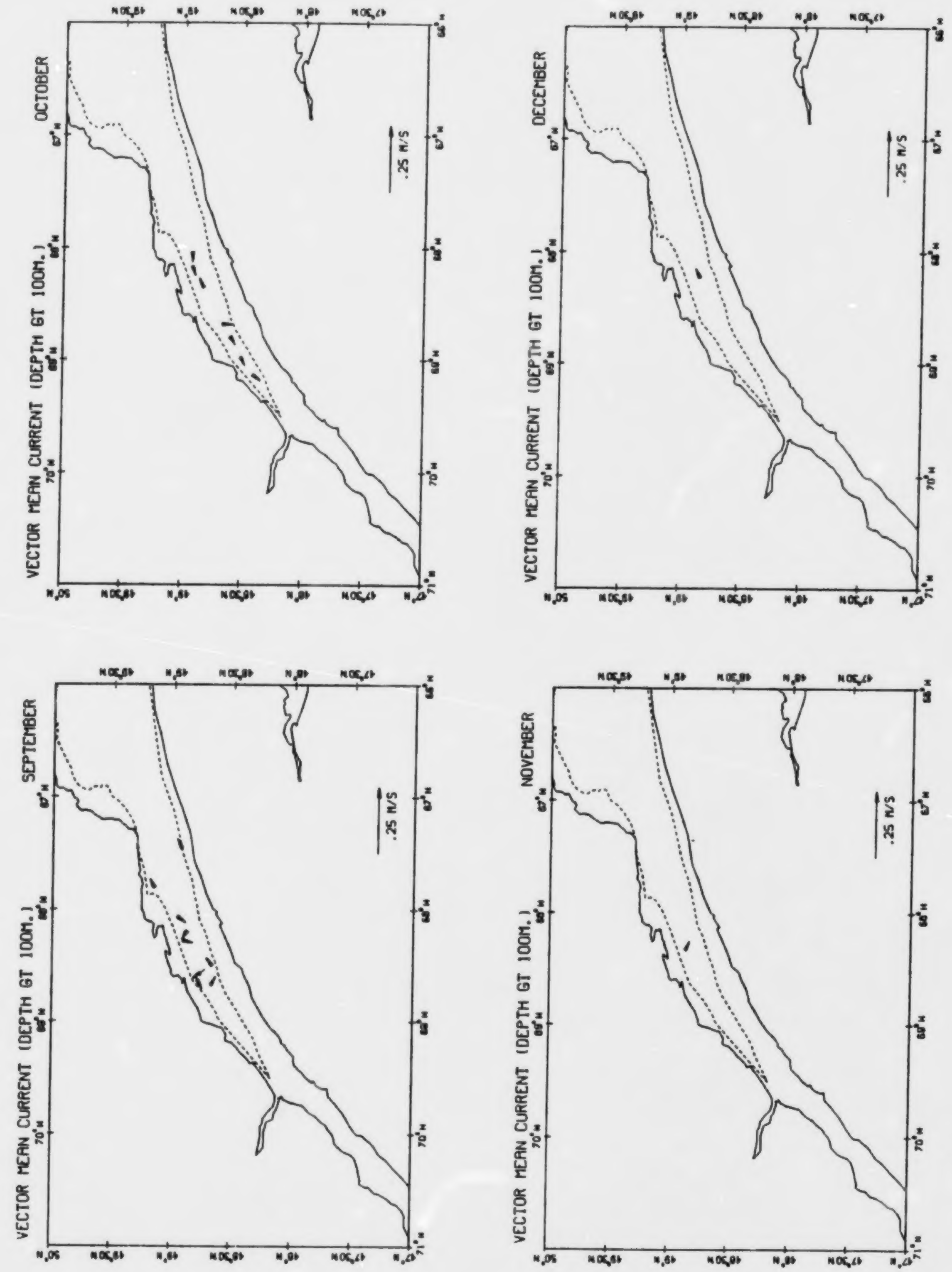

VECTOR MEAN CURRENT (DEPTH 30-100M.)
APRIL
.25 M/S

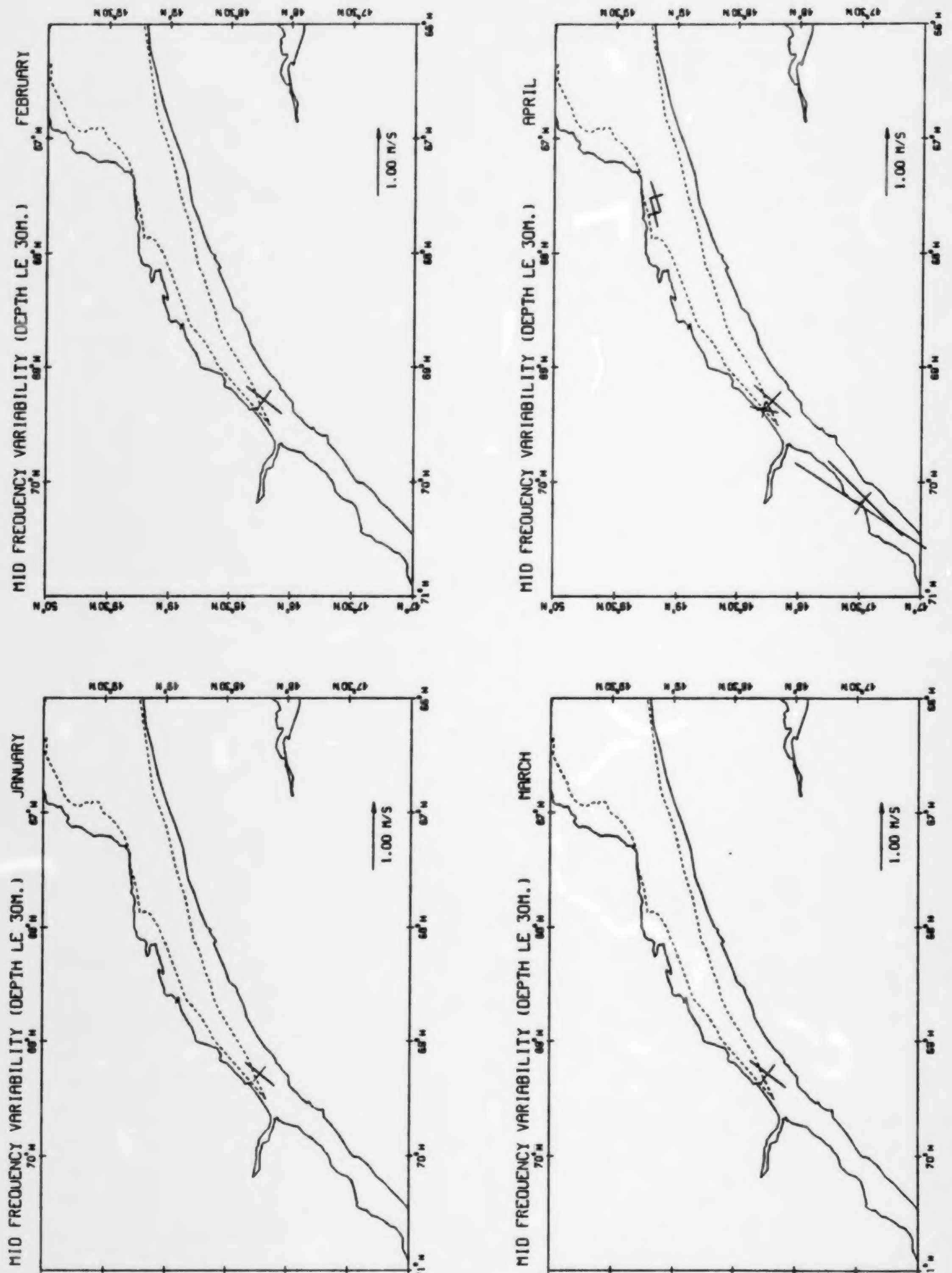

VECTOR MEAN CURRENT (DEPTH 30-100M.)
MAY
JUNE
JULY
AUGUST
.25 M/S
71°W
70°W

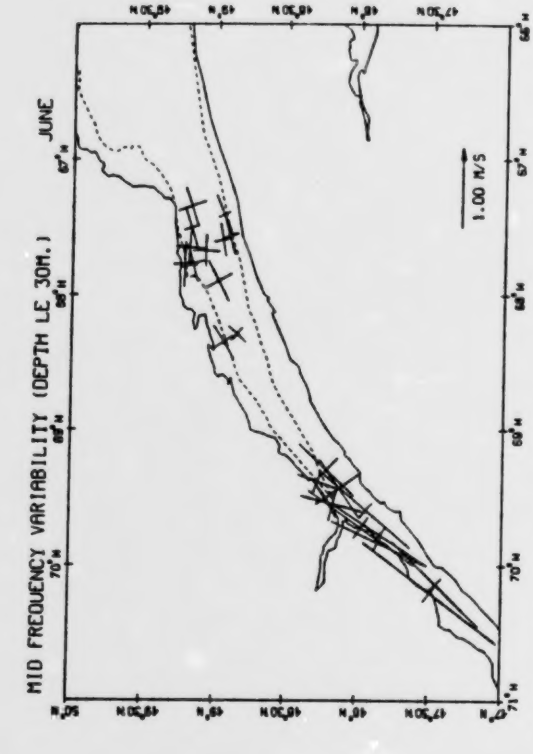

VECTOR MEAN CURRENT (DEPTH 30-100M.)
OCTOBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.)
DECEMBER
NO DATA
VECTOR MEAN CURRENT (DEPTH 30-100M.)
SEPTEMBER
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.)
NOVEMBER
NO DATA

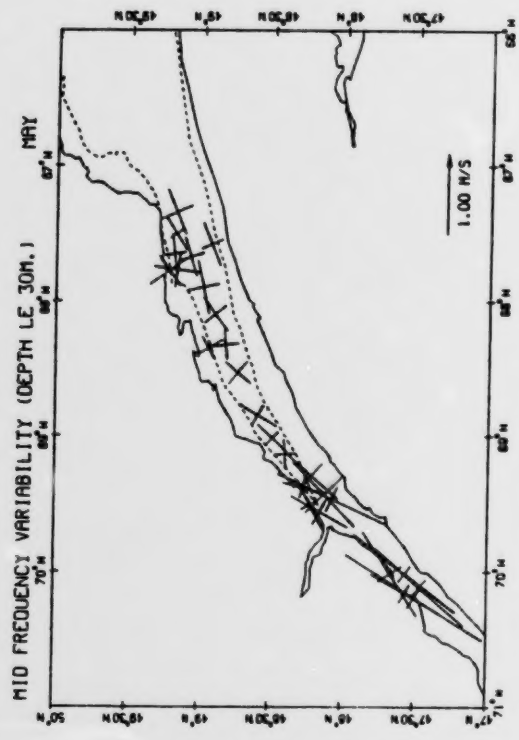

VECTOR MEAN CURRENT (DEPTH GT 100M.)
FEBRUARY
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.)
APRIL
NO DATA
VECTOR MEAN CURRENT (DEPTH GT 100M.)
JANUARY
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.)
MARCH
.25 M/S

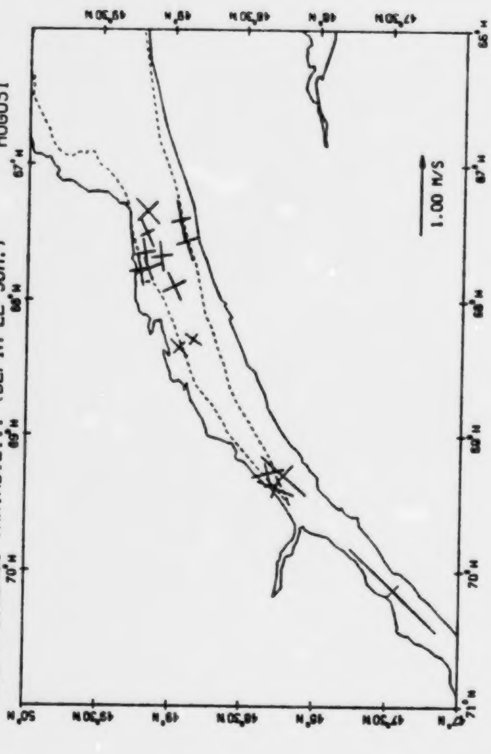

VECTOR MEAN CURRENT (DEPTH GT 100M.)
MAY
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.)
JUNE
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.)
JULY
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.)
AUGUST
.25 M/S

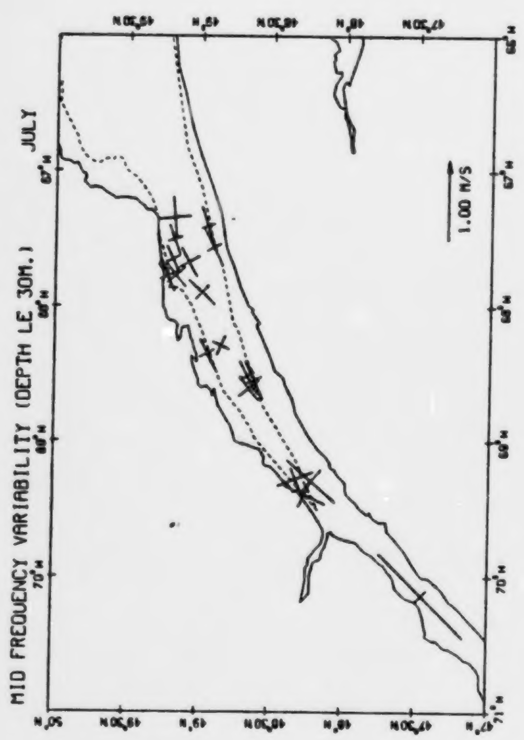

VECTOR MEAN CURRENT (DEPTH GT 100M.)
OCTOBER
VECTOR MEAN CURRENT (DEPTH GT 100M.)
DECEMBER
VECTOR MEAN CURRENT (DEPTH GT 100M.)
SEPTEMBER
VECTOR MEAN CURRENT (DEPTH GT 100M.)
NOVEMBER
.25 M/S

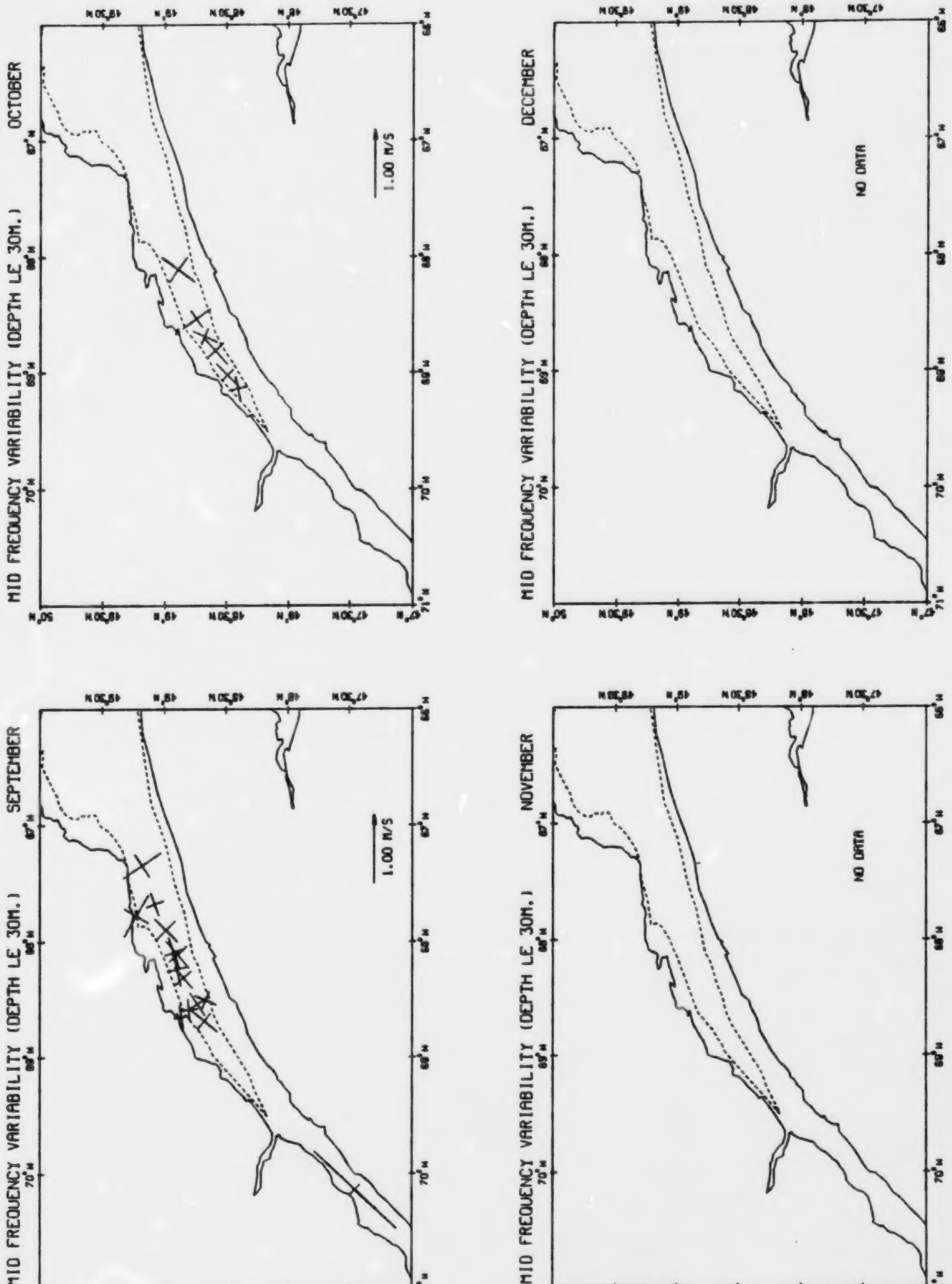

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JANUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
FEBRUARY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
MARCH
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
APRIL
1.00 M/S

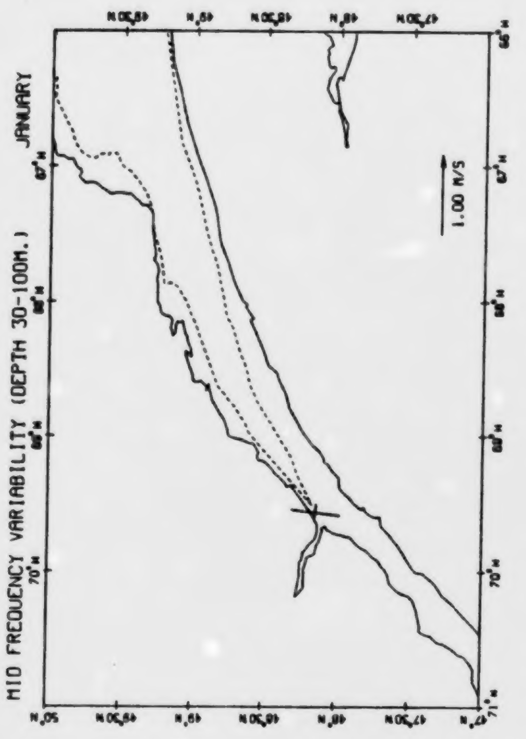

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JUNE
1.00 M/S

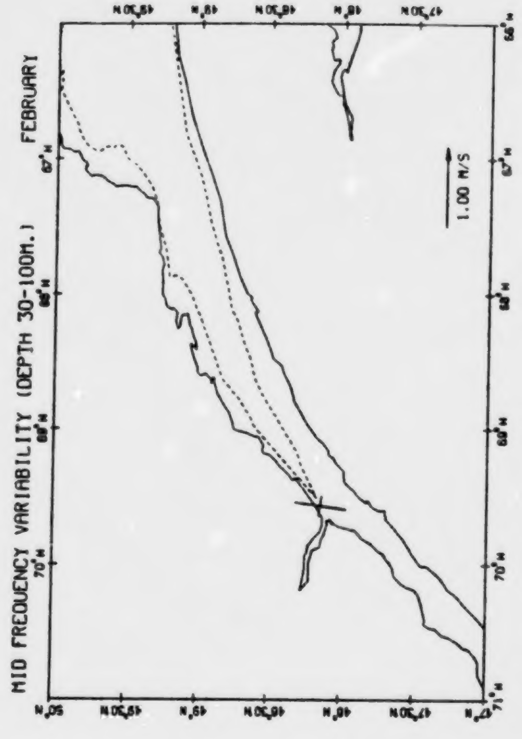

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
MAY
1.00 M/S

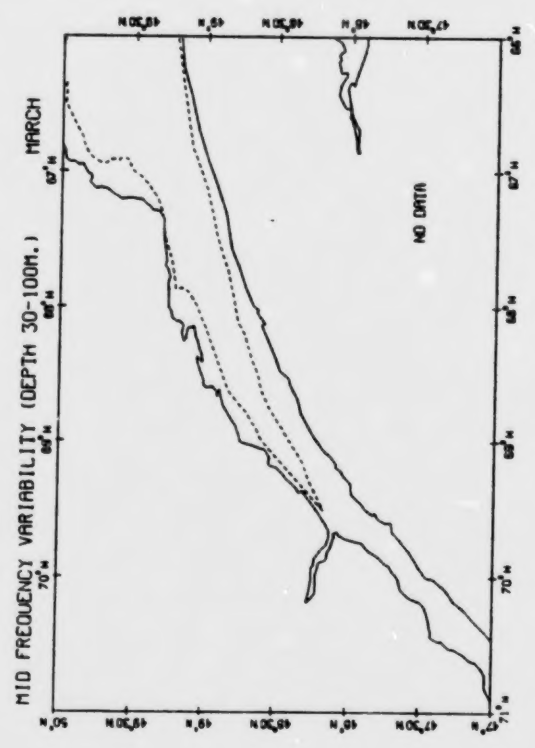

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
AUGUST
1.00 M/S

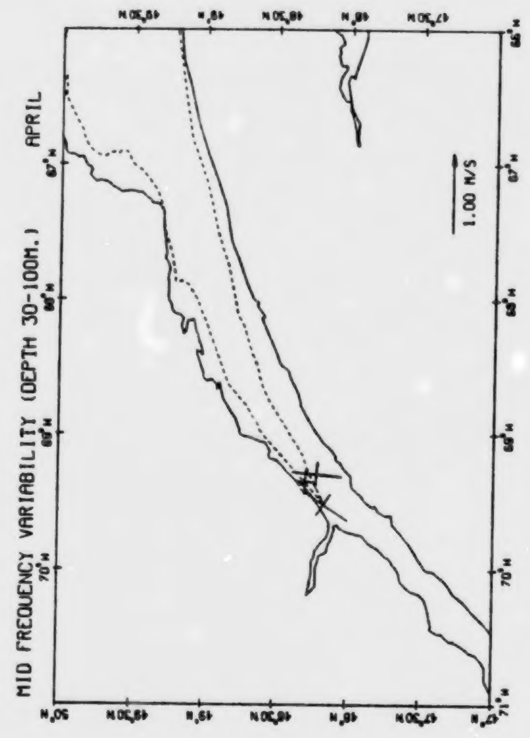

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
JULY
1.00 M/S

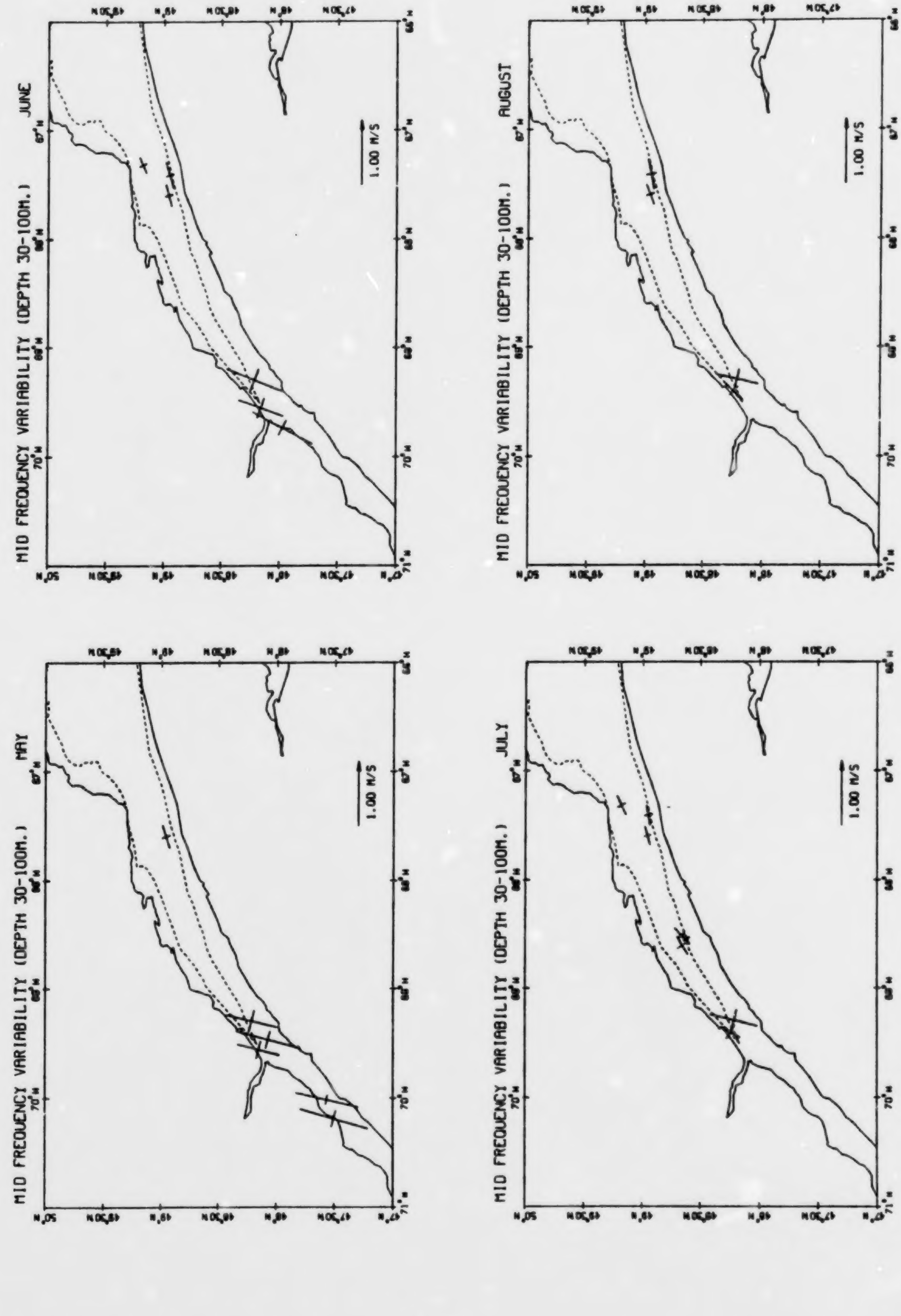

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
DECEMBER
NO DATA
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
NOVEMBER
NO DATA

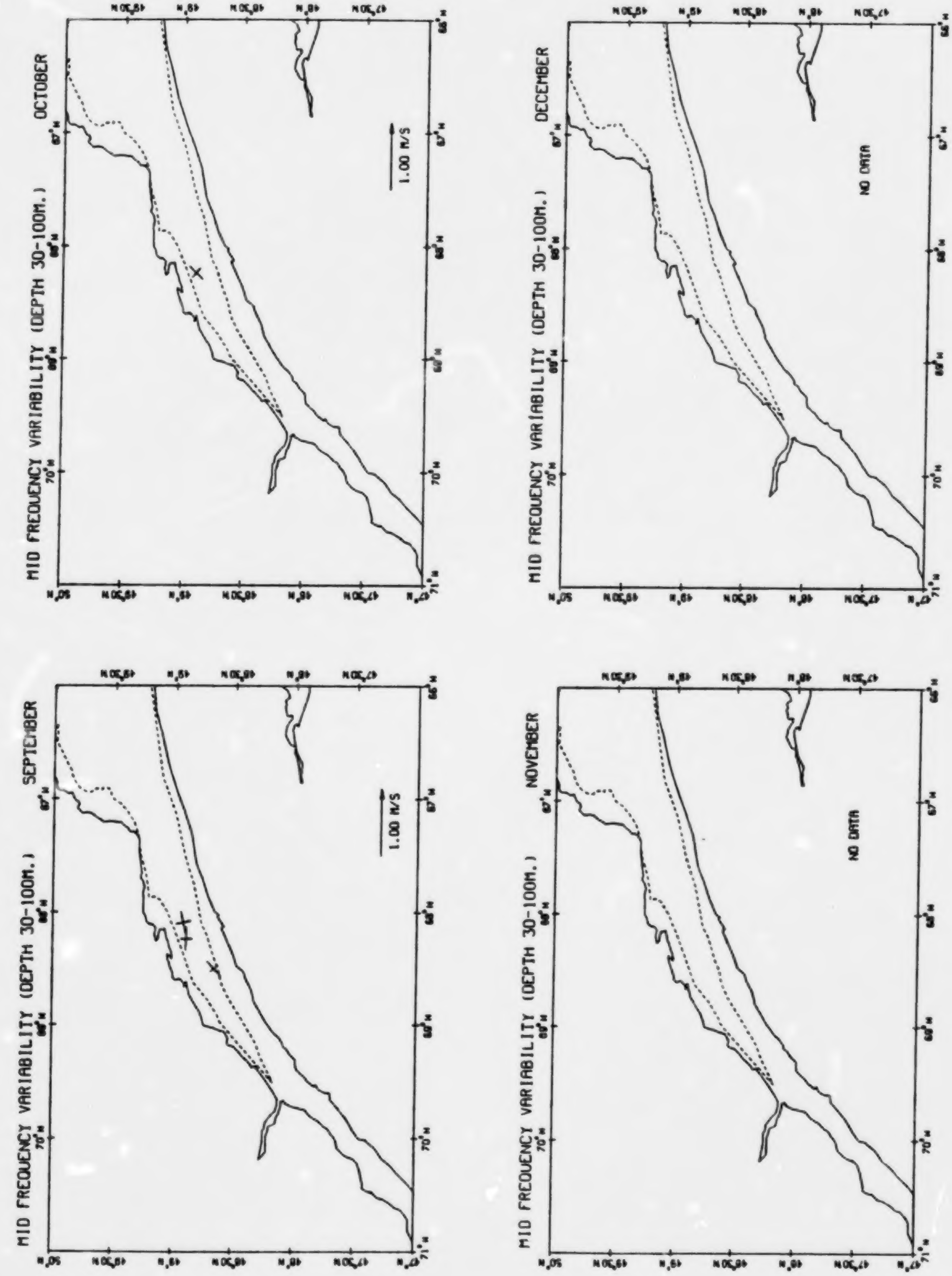

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
JANUARY
1.00 M/S

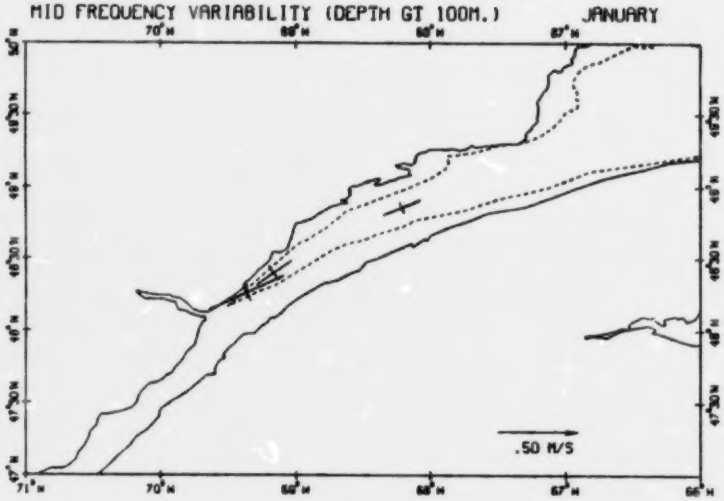

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
FEBRUARY
1.00 M/S

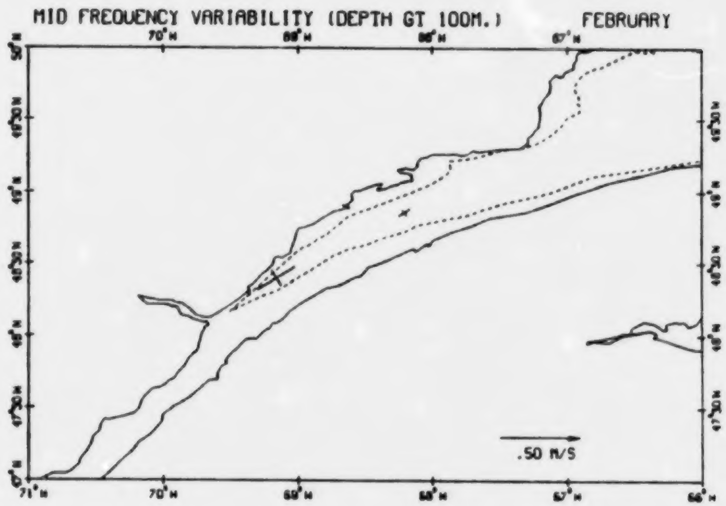

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
MARCH
NO DATA

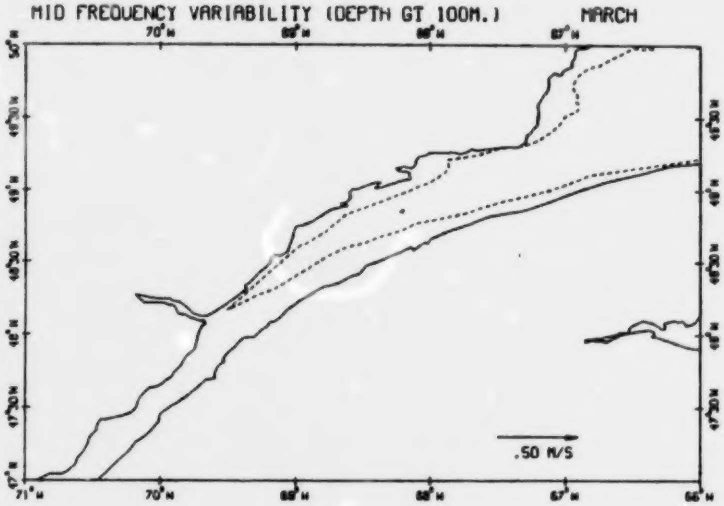

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
APRIL
1.00 M/S

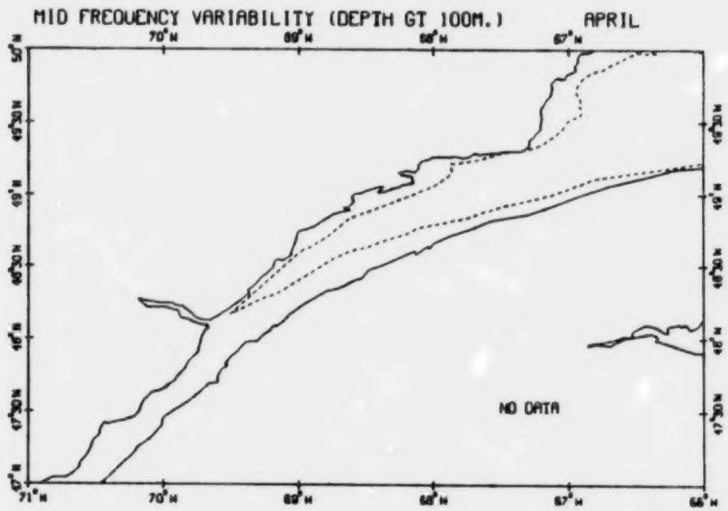

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
MAY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
JUNE
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
JULY
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
AUGUST
1.00 M/S

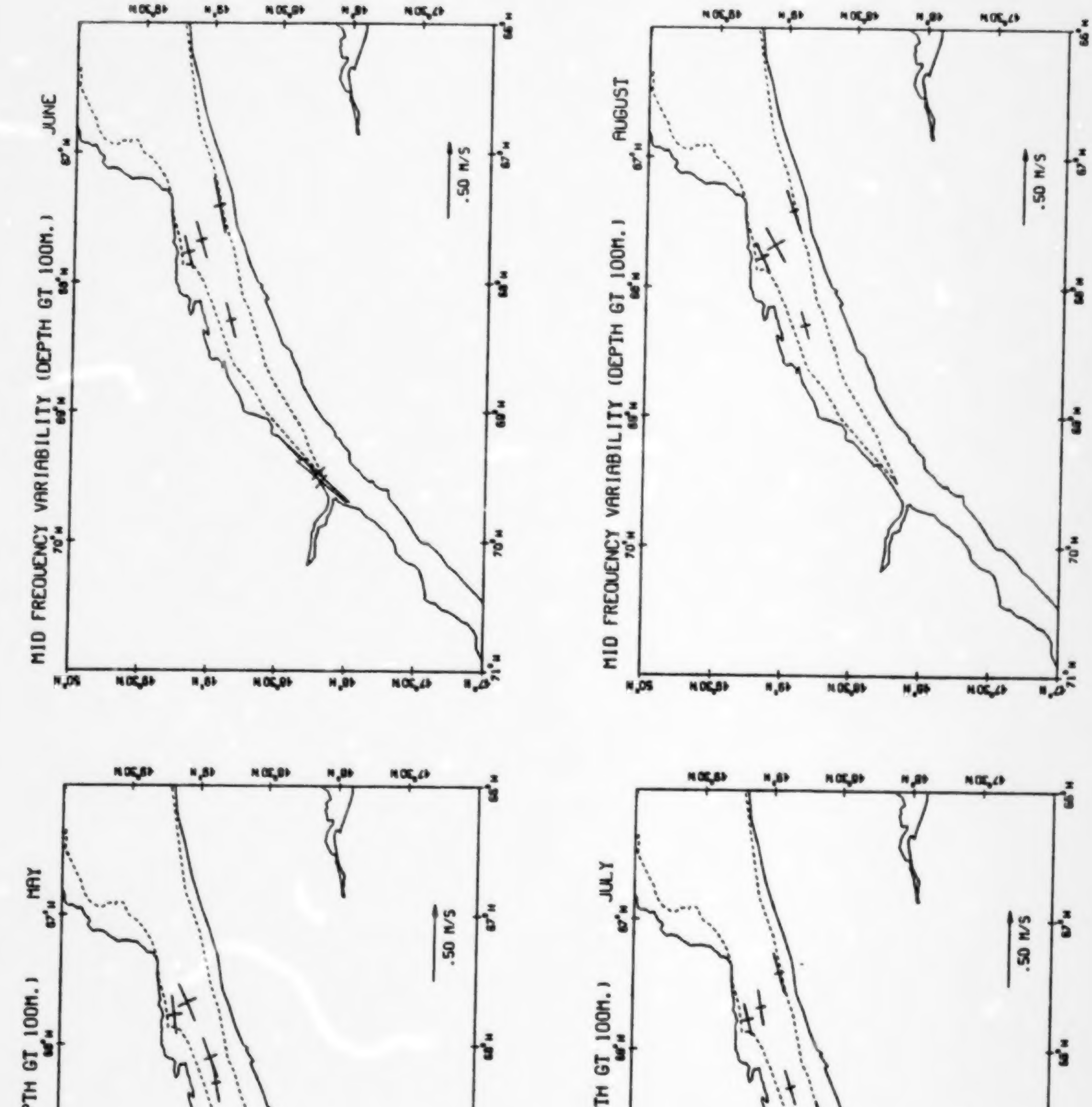

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER
1.00 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) NOVEMBER
NO DATA
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) DECEMBER
NO DATA

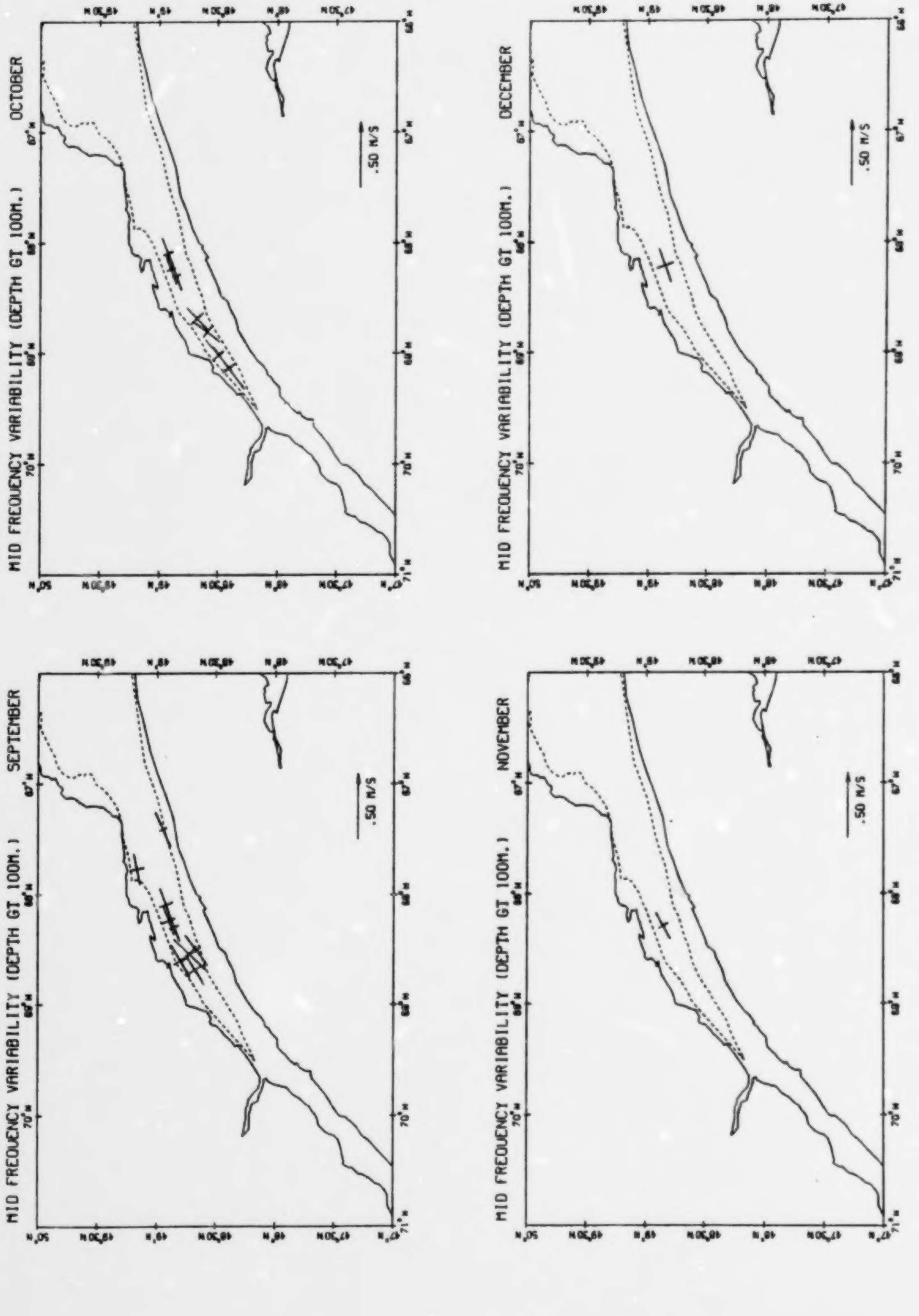

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
JANUARY
.50 M/S

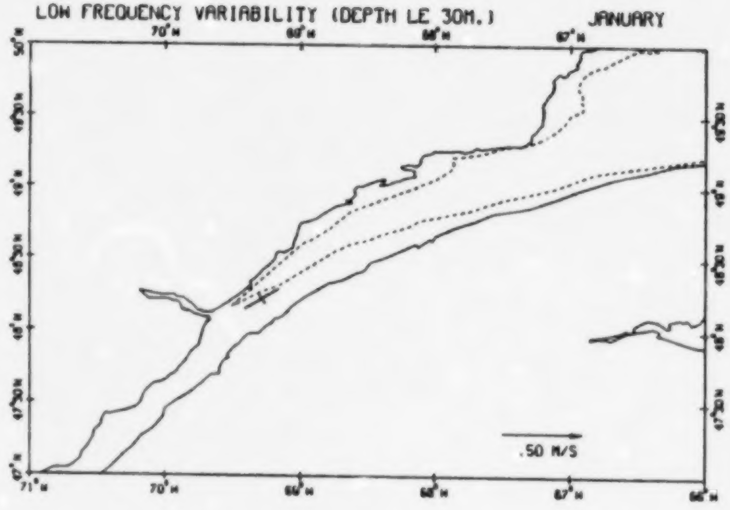

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
FEBRUARY
.50 M/S

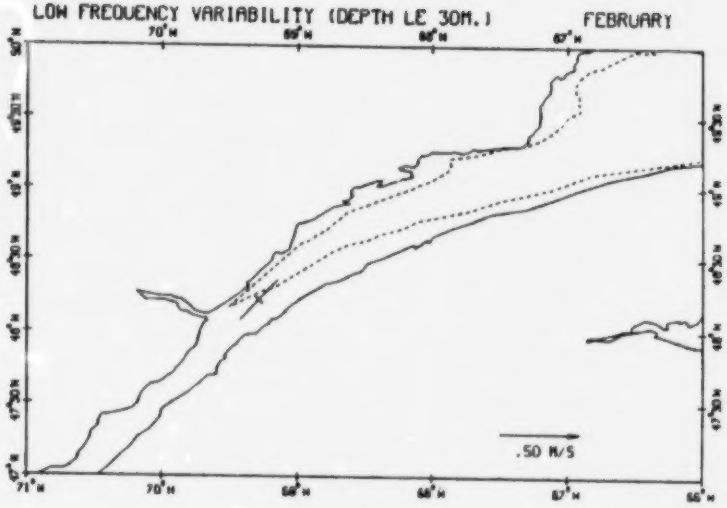

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
MARCH
.50 M/S

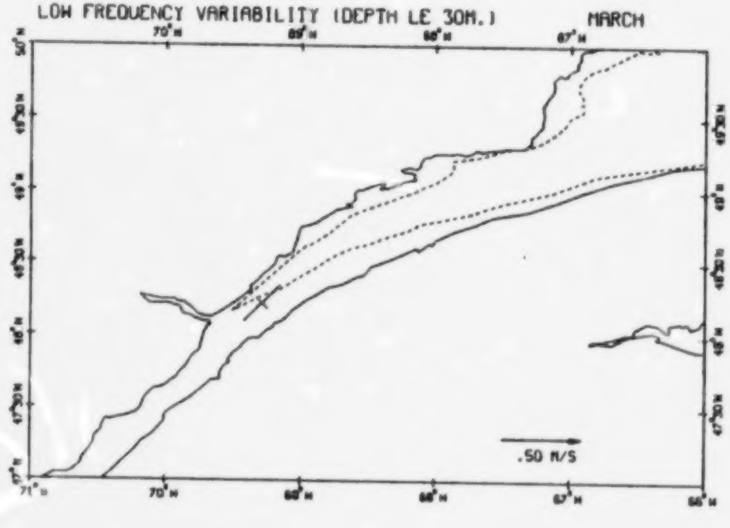

MID FREQUENCY VARIABILITY (DEPTH GT 100M.)
APRIL
NO DATA

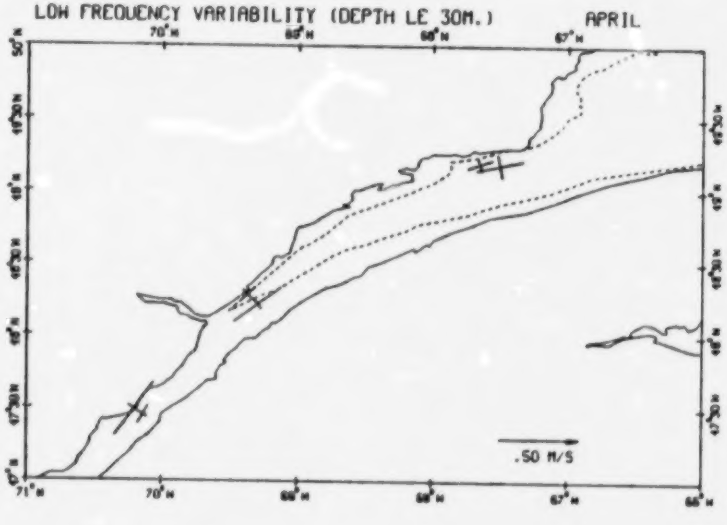

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) MAY
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.50 M/S

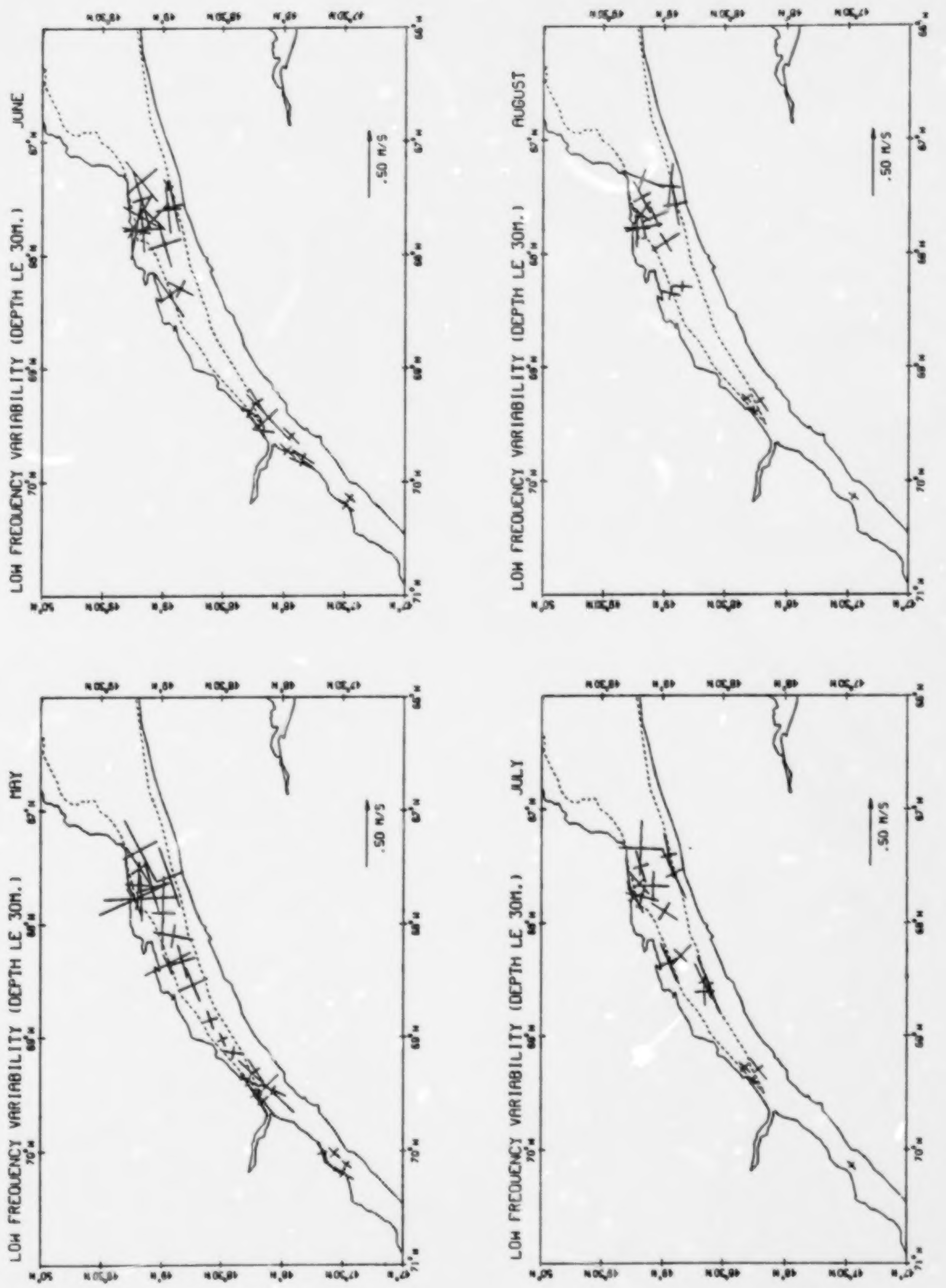

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) OCTOBER
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) DECEMBER
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.50 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) NOVEMBER
.50 M/S

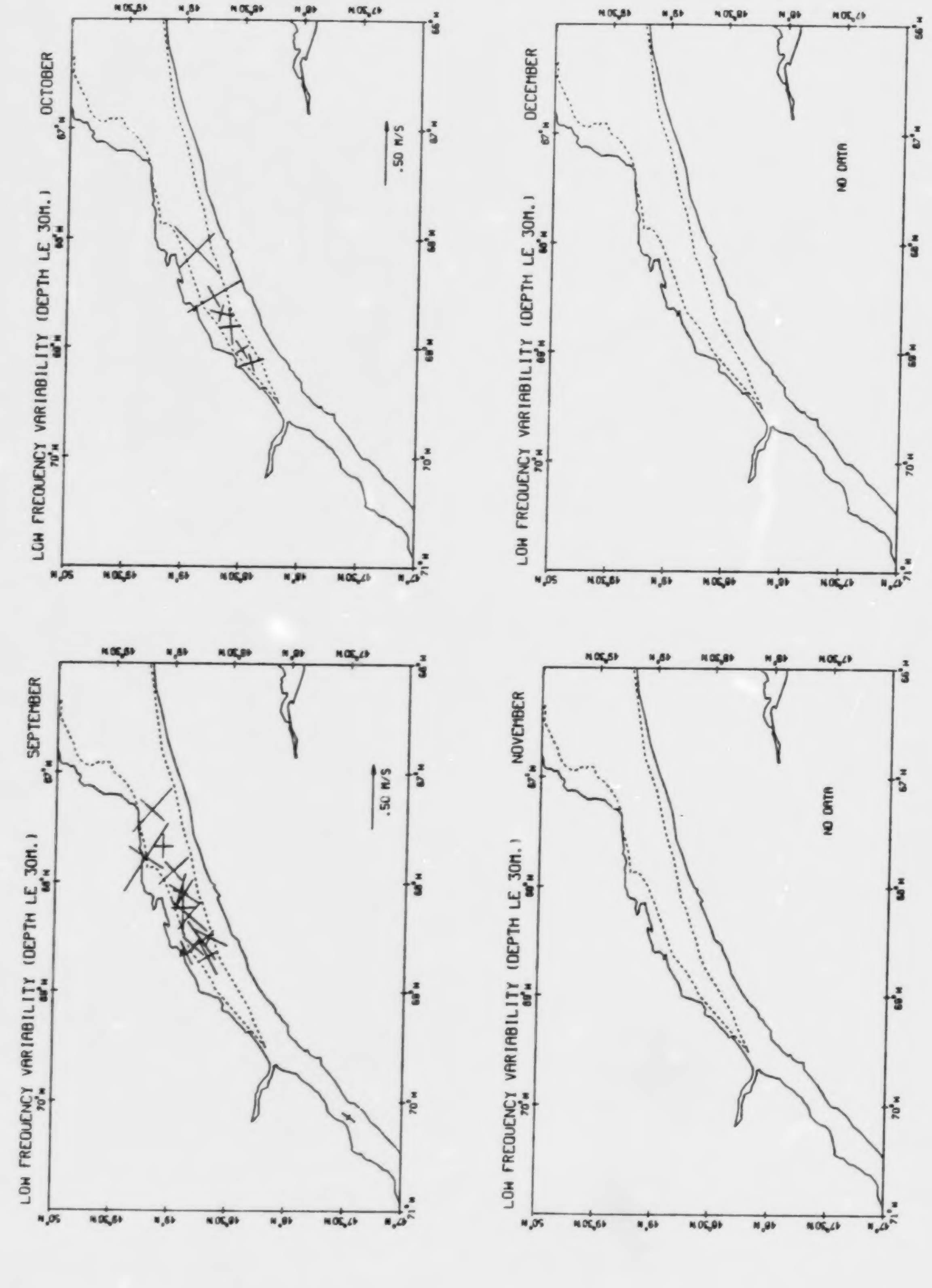

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JANUARY
.50 M/S

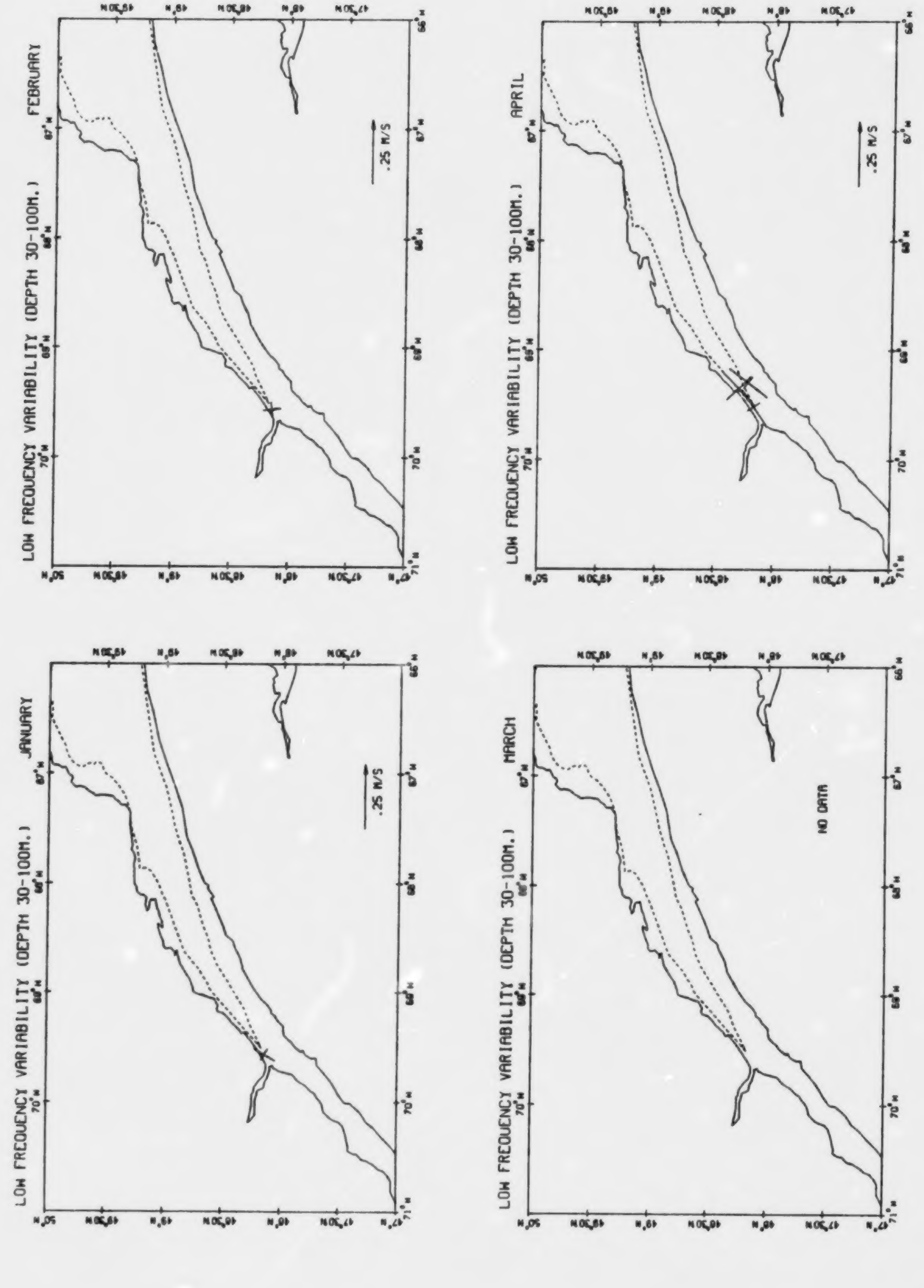

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
FEBRUARY
.50 M/S

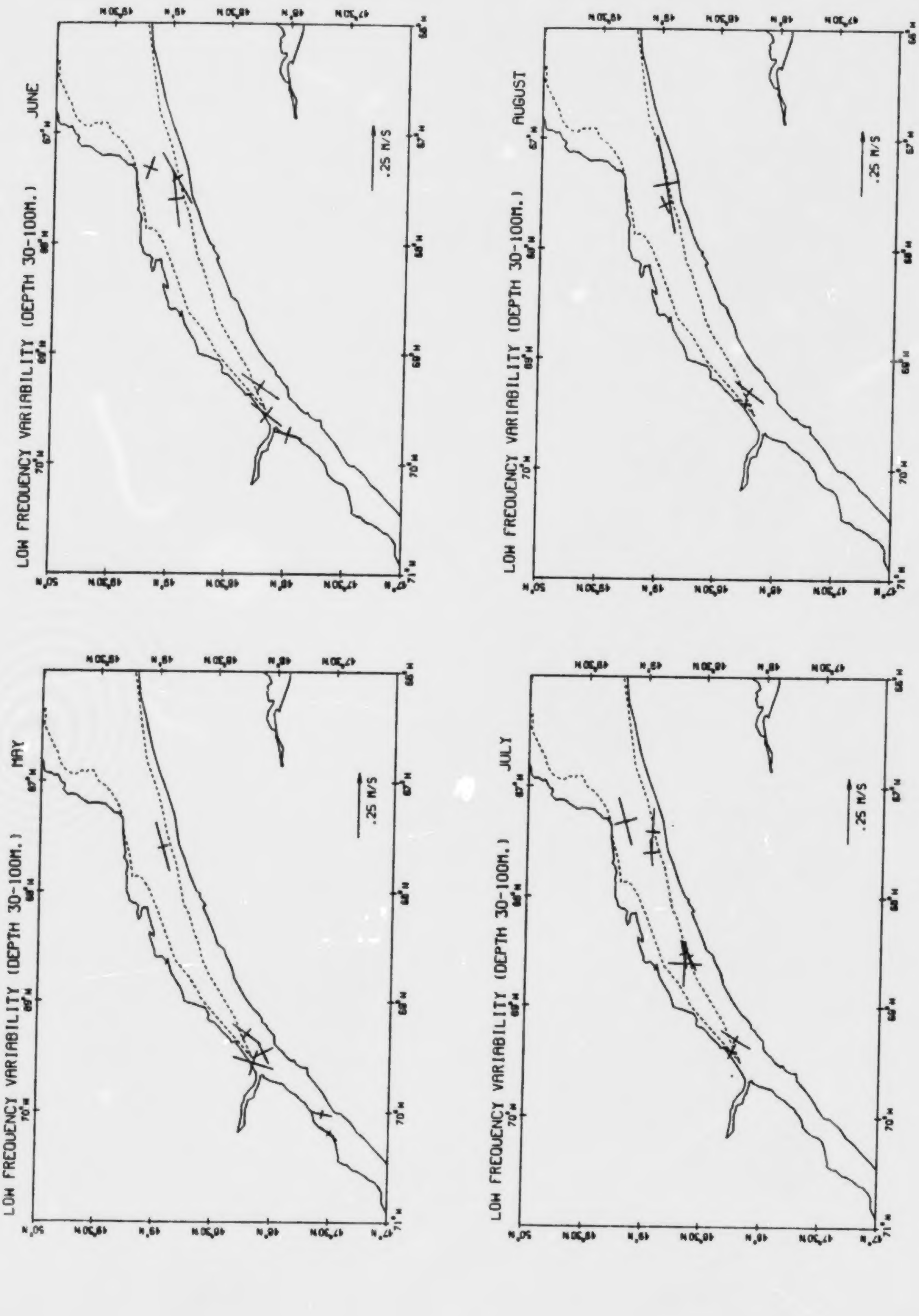

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
MARCH
.50 M/S

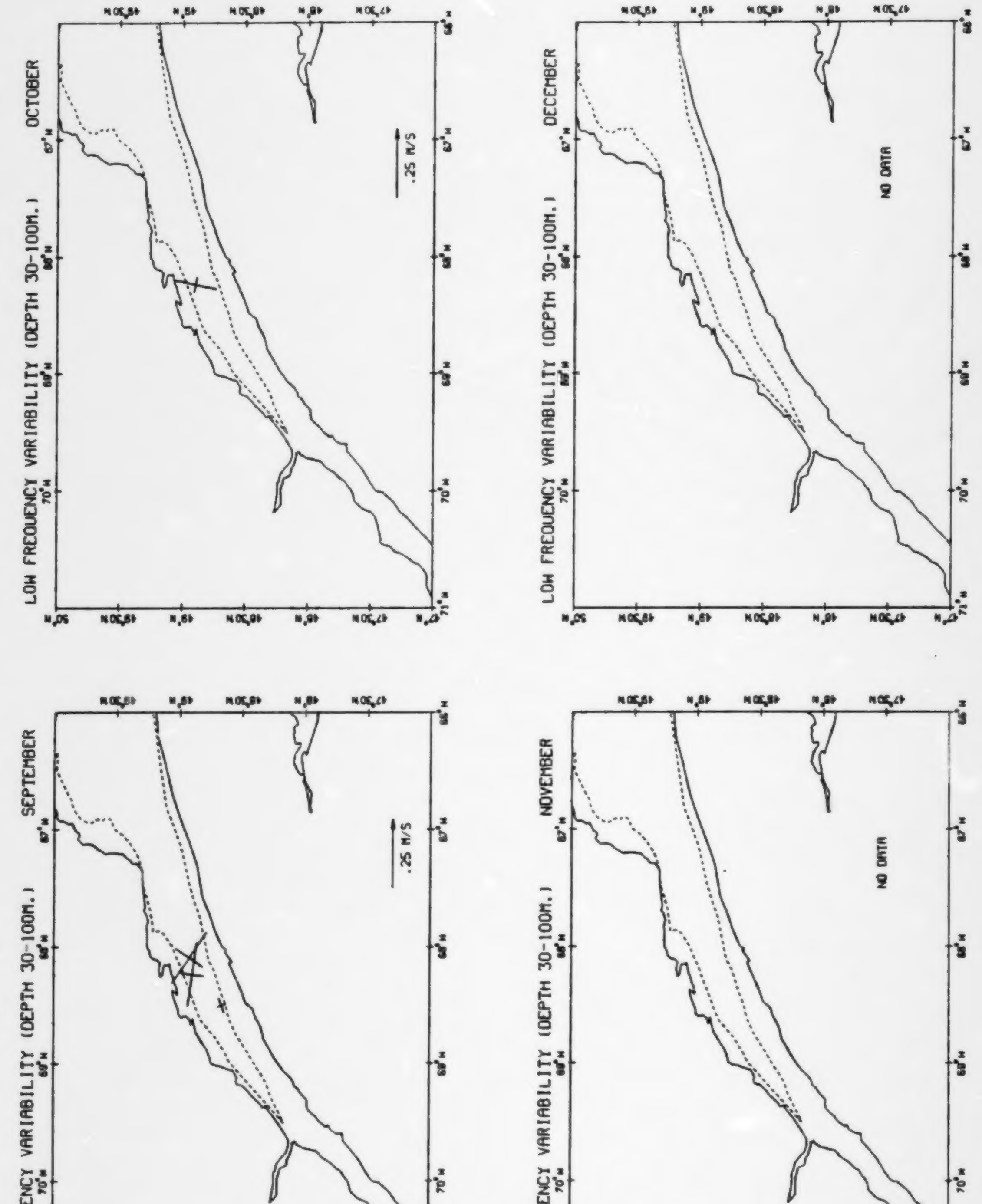

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
APRIL
.50 M/S

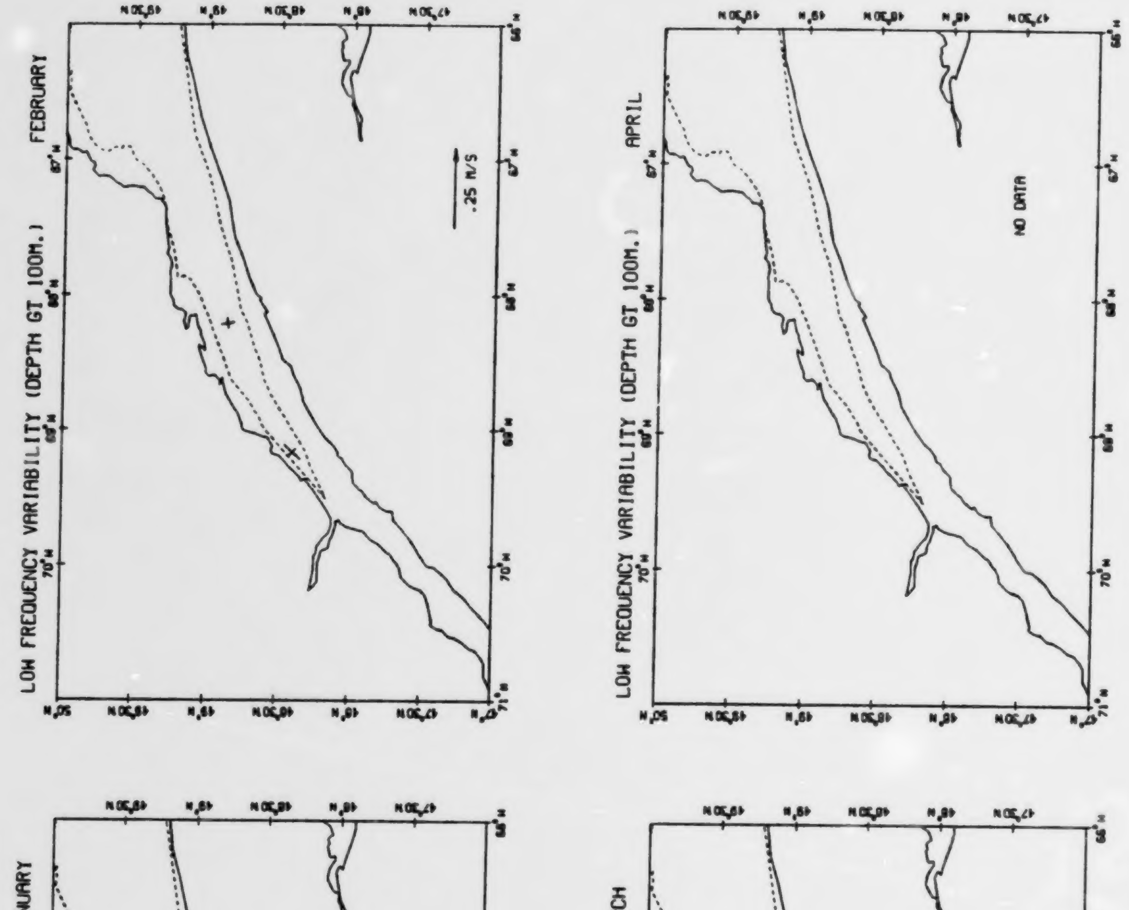

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) MAY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JULY
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) AUGUST
.50 M/S

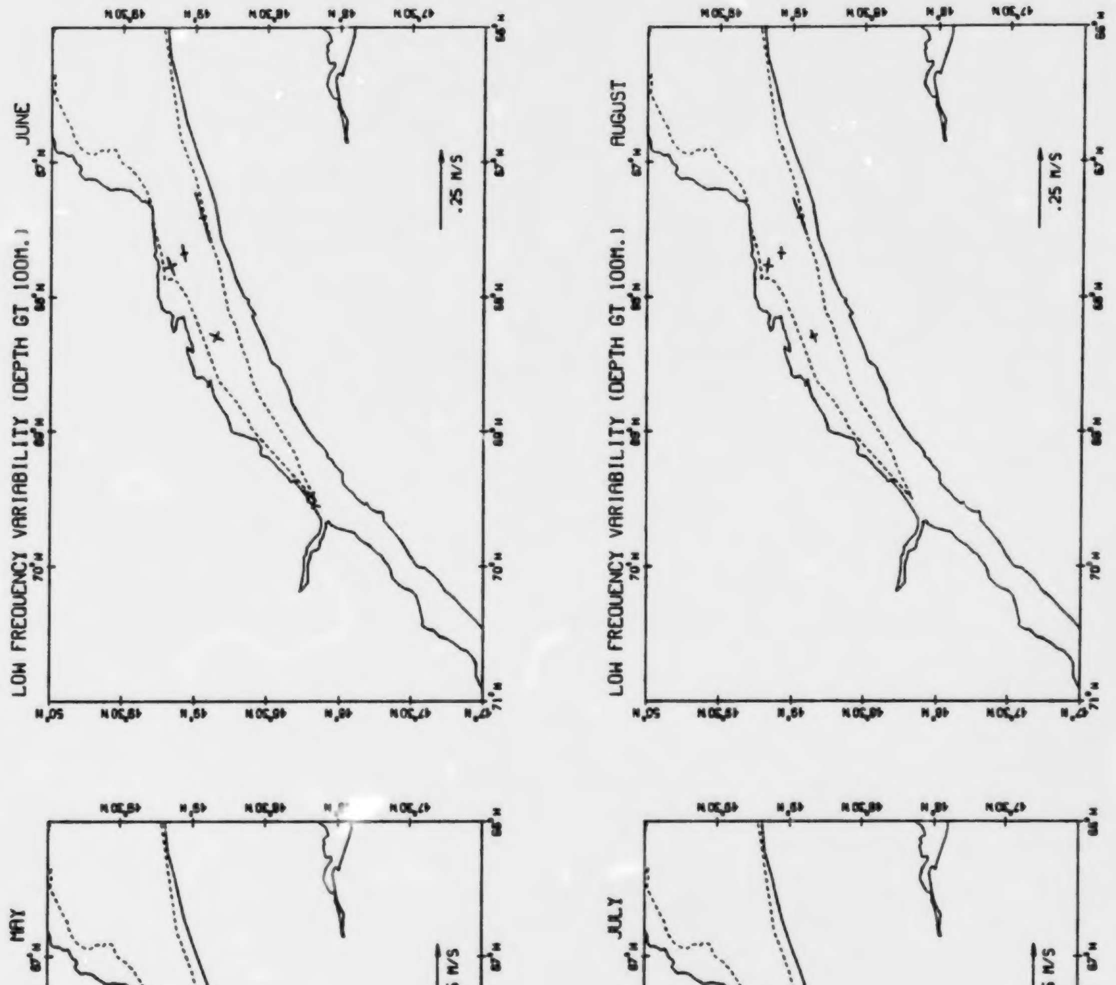

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
DECEMBER
NO DATA
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
.50 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
NOVEMBER
NO DATA

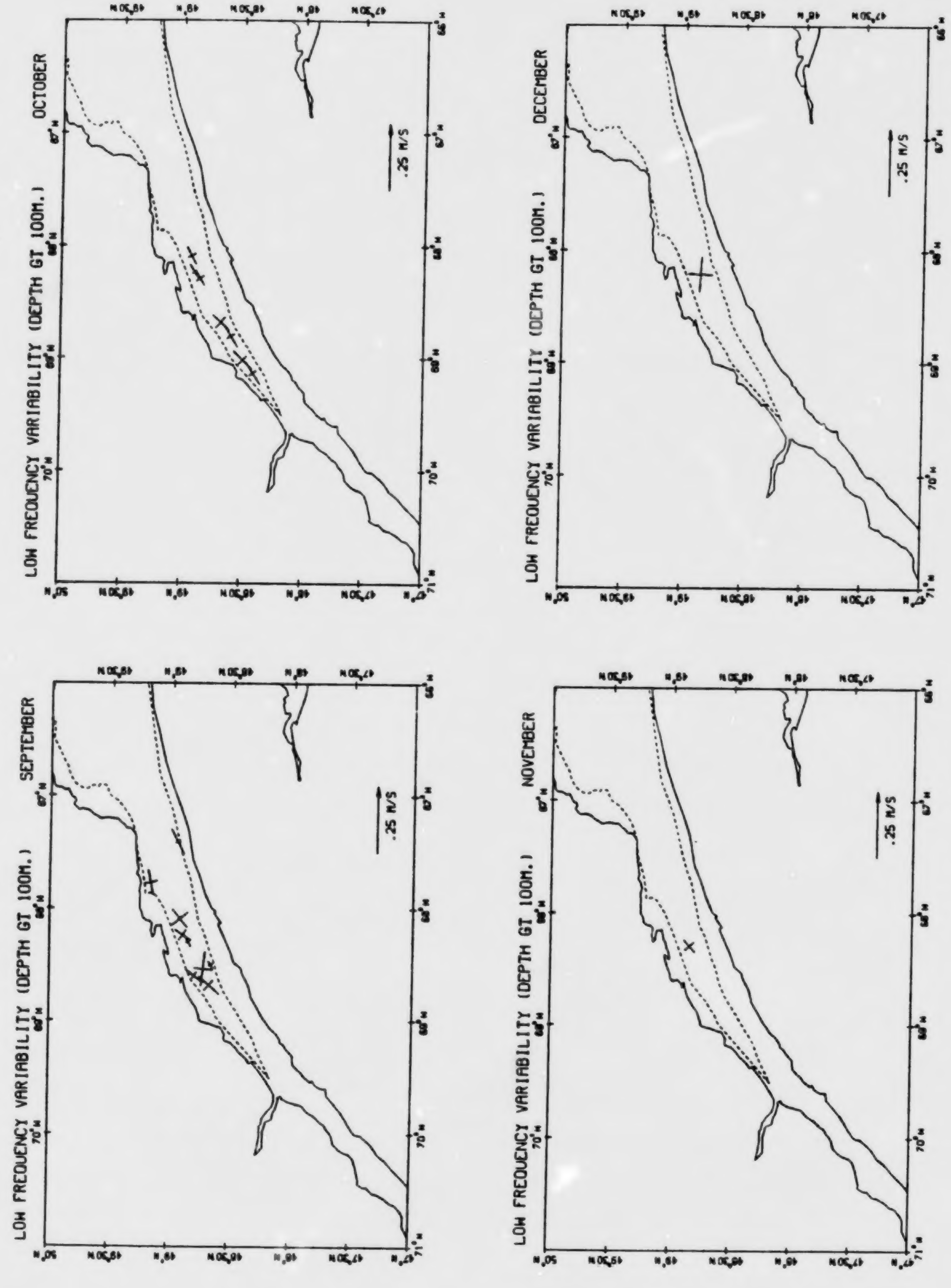

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JANUARY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) FEBRUARY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) MARCH
NO DATA
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) APRIL
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
MAY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
JUNE
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
JULY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.)
AUGUST
.25 M/S

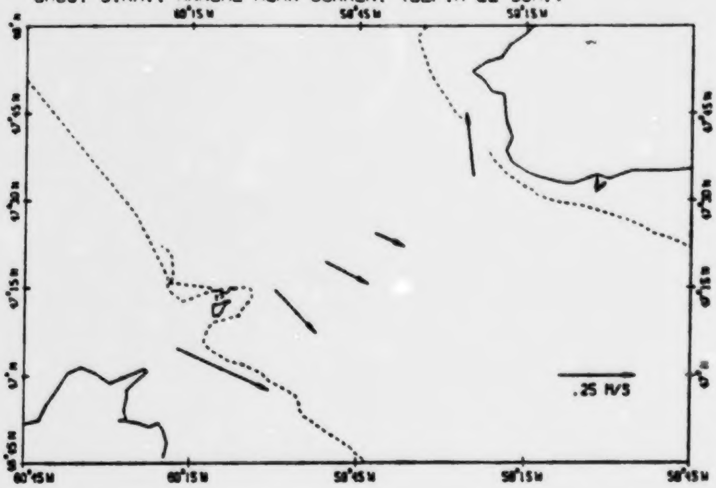

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) DECEMBER
NO DATA
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) NOVEMBER
NO DATA
71°W
70°W
69°W
68°W
67°W
66°W
47°N
47°30'N
48°N
48°30'N
49°N
49°30'N
50°N


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
FEBRUARY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
APRIL
NO DATA
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
JANUARY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
MARCH
.25 M/S

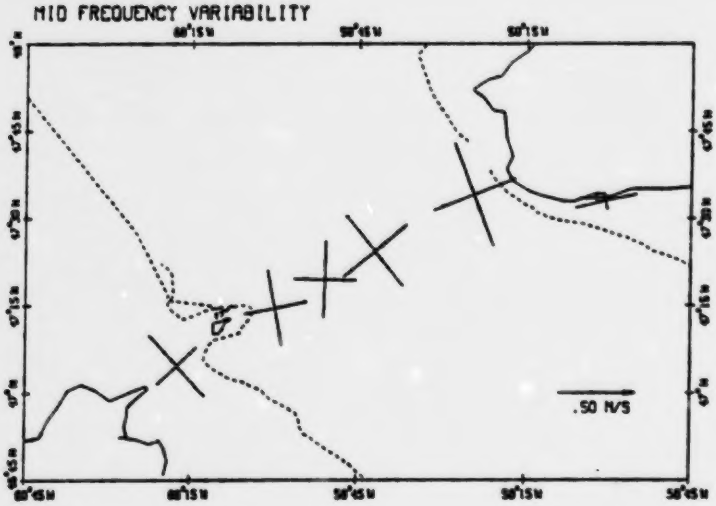

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) MAY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.)
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
.25 M/S
71° W
70° W
69° W
68° W
67° W
66° W
50° N
49°30' N
49° N
48°30' N
48° N
47°30' N
47° N

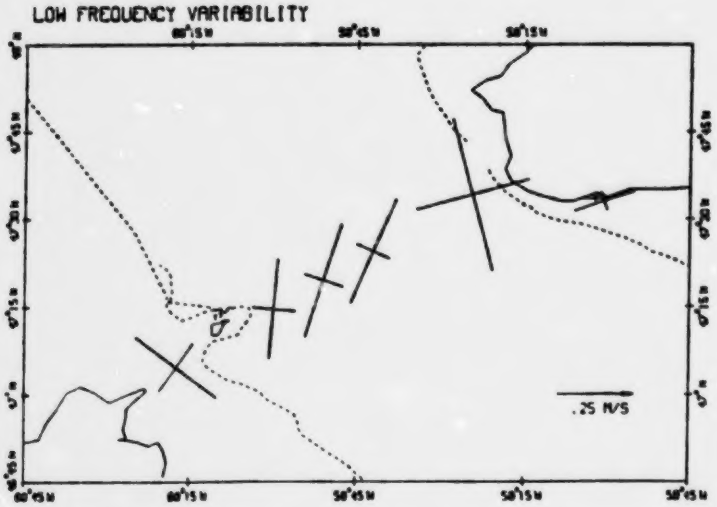
CABOT STRAIT ANNUAL MEAN CURRENT (DEPTH LE 30M.)



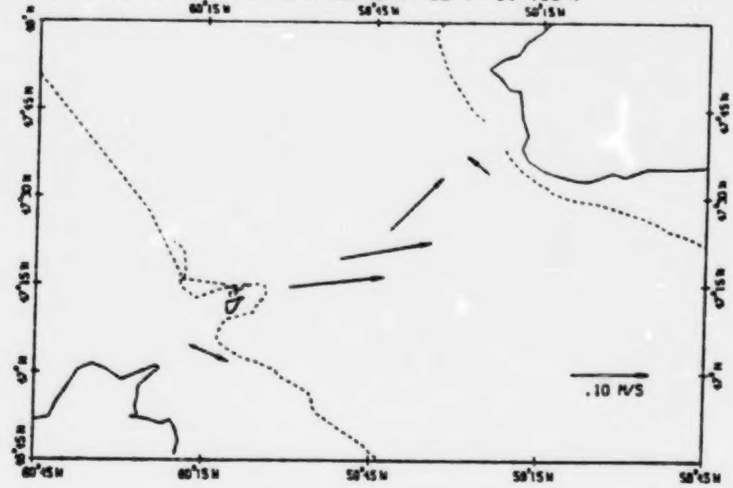
MID FREQUENCY VARIABILITY



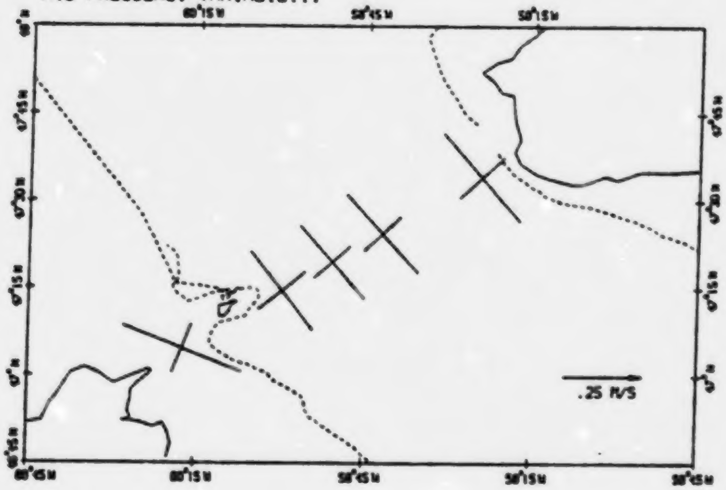
LOW FREQUENCY VARIABILITY



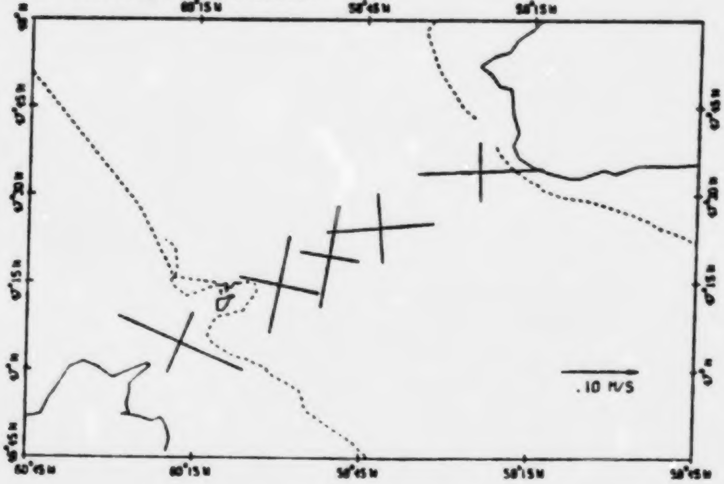
CABOT STRAIT ANNUAL MEAN CURRENT (DEPTH 30-100M.



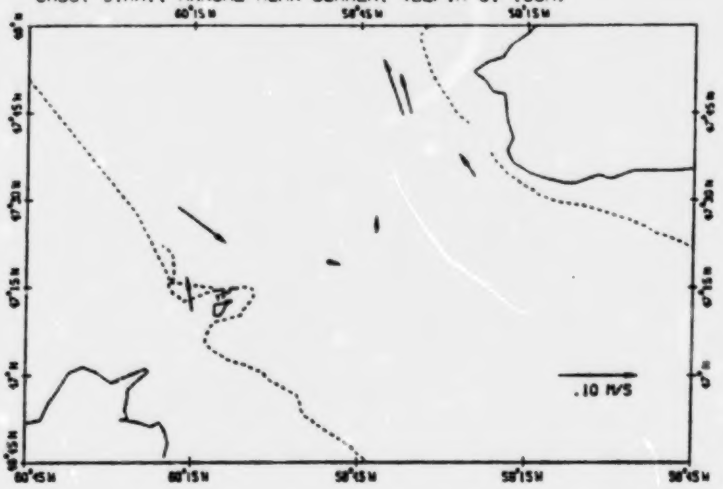
MID FREQUENCY VARIABILITY



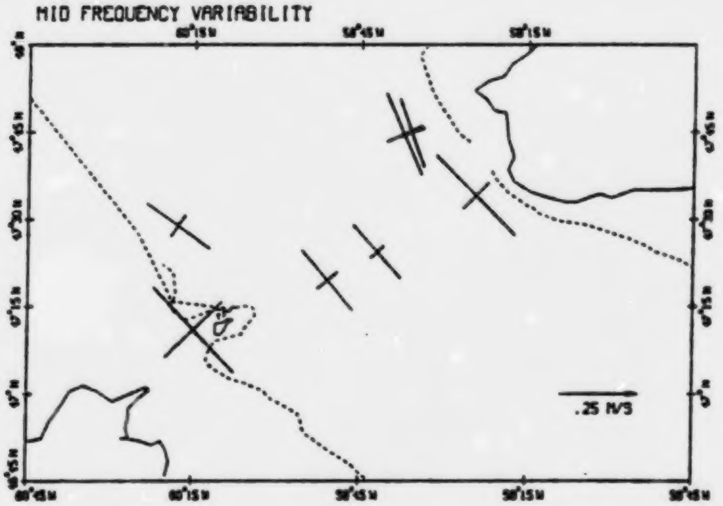
LOW FREQUENCY VARIABILITY



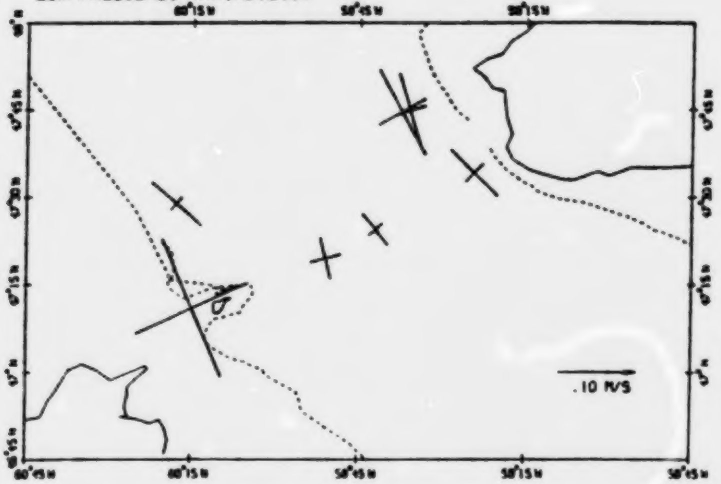
CABOT STRAIT ANNUAL MEAN CURRENT (DEPTH GT 100M.

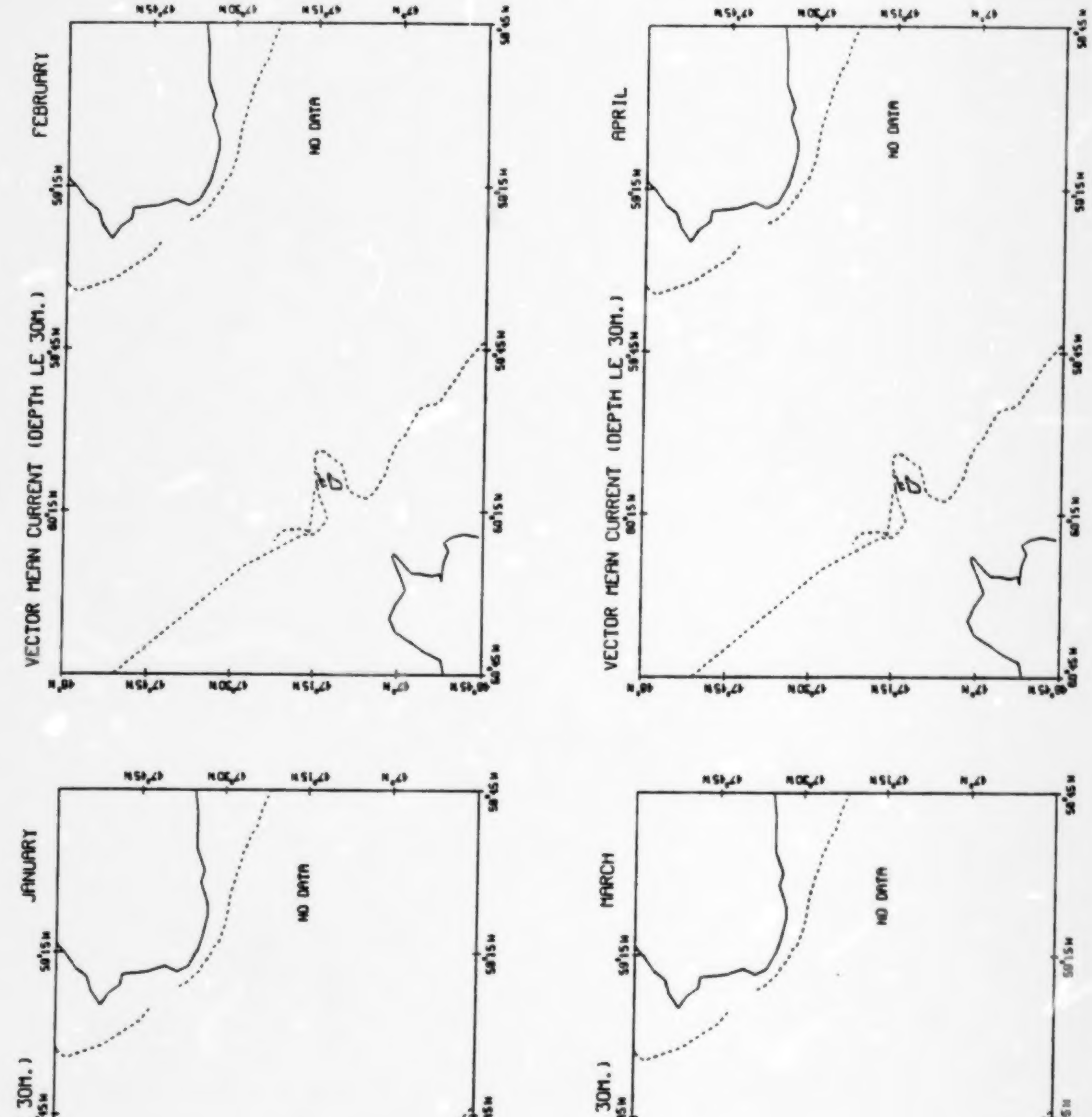


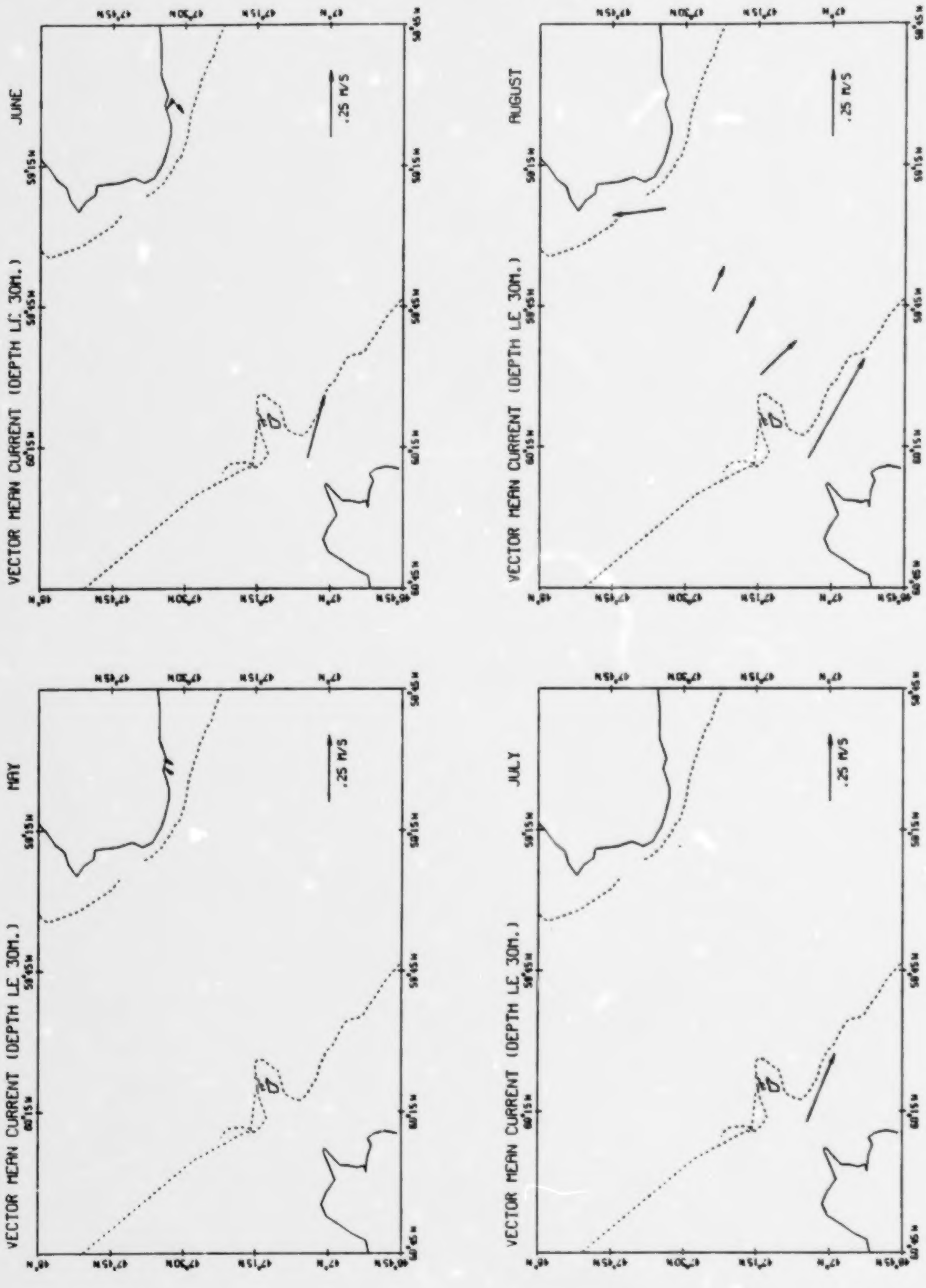
MID FREQUENCY VARIABILITY

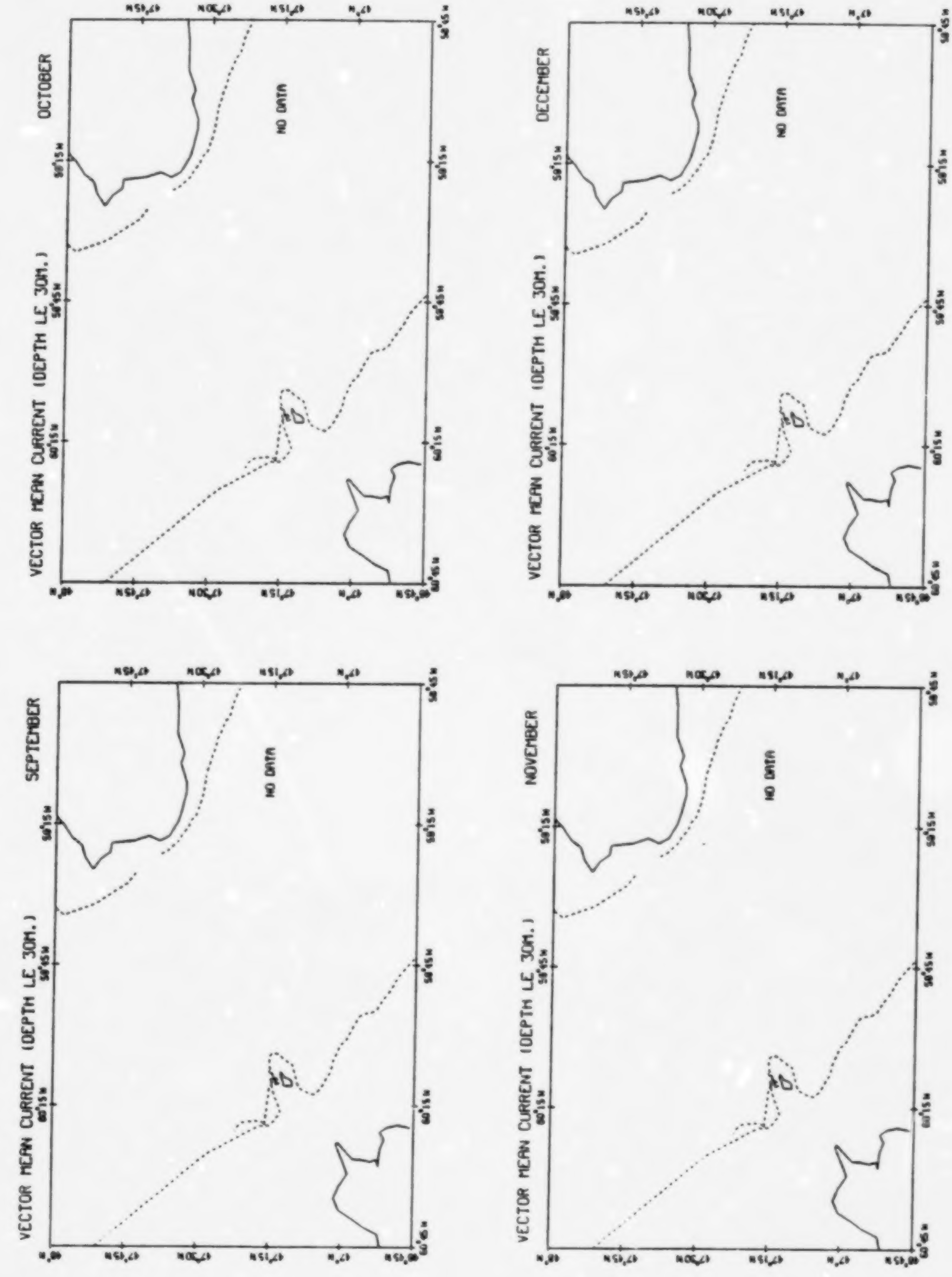


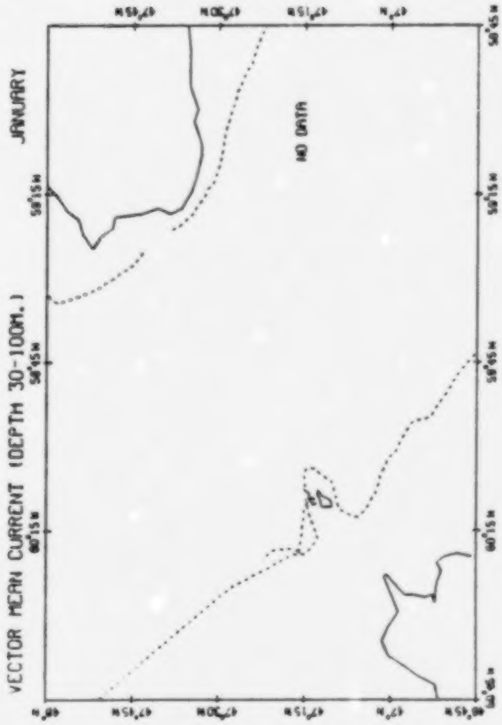
LOW FREQUENCY VARIABILITY

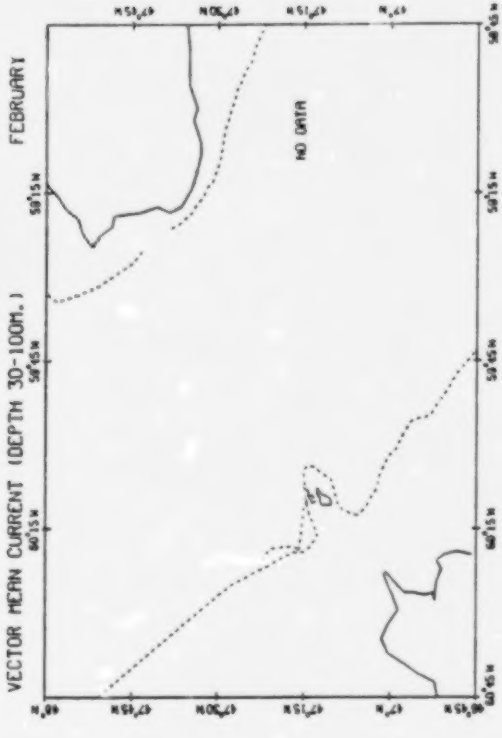


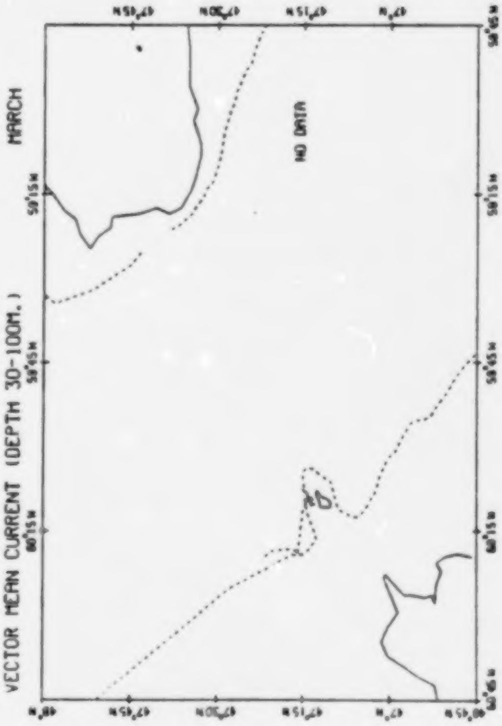

VECTOR MEAN CURRENT (DEPTH LE 30M.)
FEBRUARY
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
APRIL
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
JANUARY
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
MARCH
NO DATA

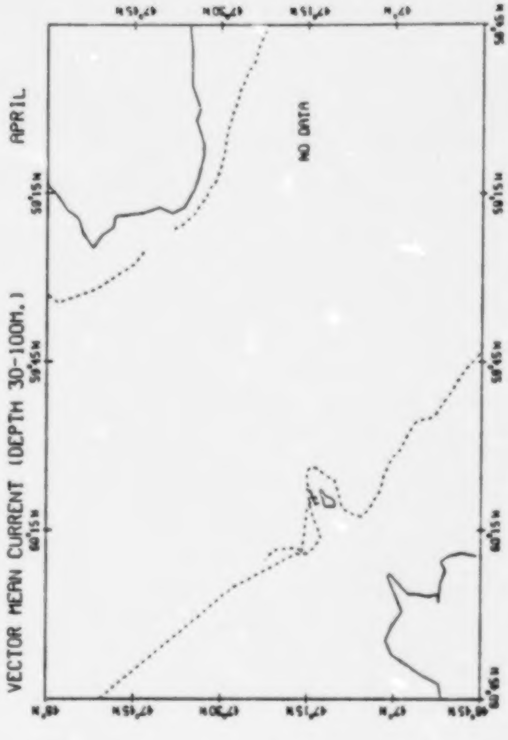

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JUNE
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
AUGUST
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
MAY
.25 M/S
VECTOR MEAN CURRENT (DEPTH LE 30M.)
JULY
.25 M/S

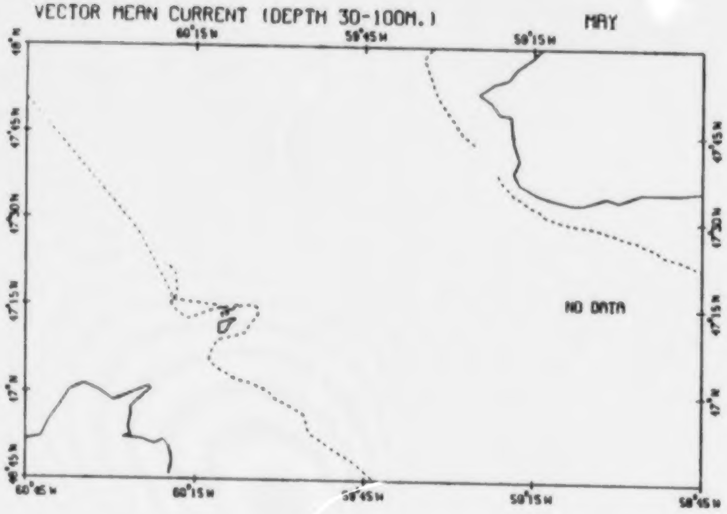

VECTOR MEAN CURRENT (DEPTH LE 30M.)
OCTOBER
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
DECEMBER
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
SEPTEMBER
NO DATA
VECTOR MEAN CURRENT (DEPTH LE 30M.)
NOVEMBER
NO DATA

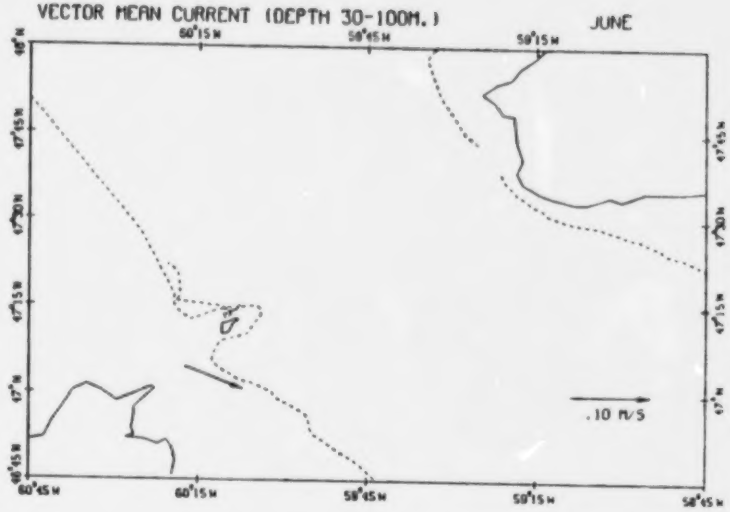

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JANUARY
NO DATA

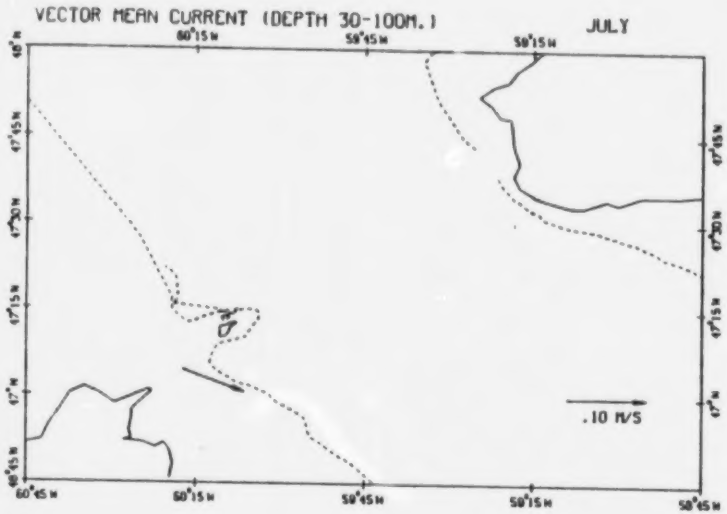

VECTOR MEAN CURRENT (DEPTH 30-100M.)
FEBRUARY
NO DATA

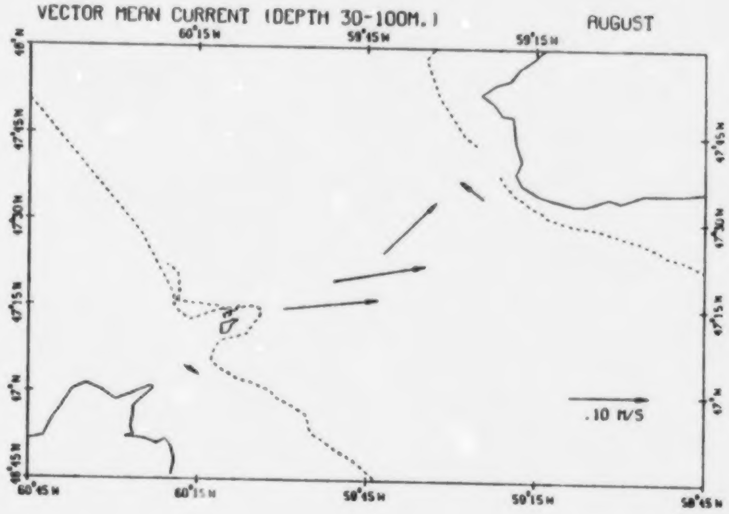

VECTOR MEAN CURRENT (DEPTH 30-100M.)
MARCH
NO DATA

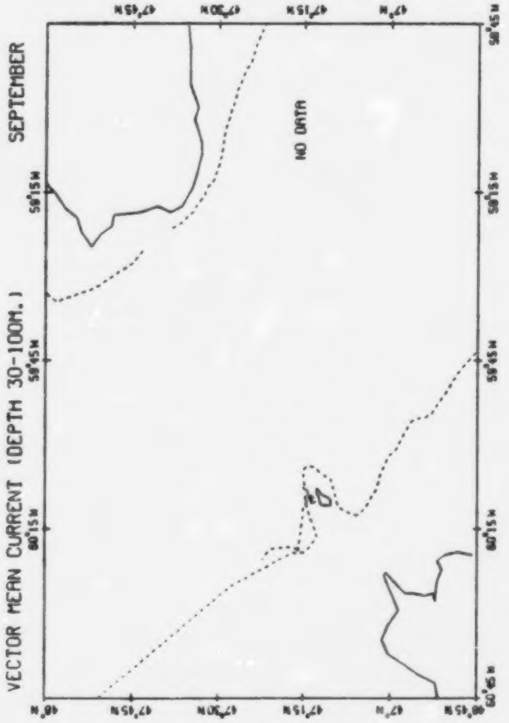

VECTOR MEAN CURRENT (DEPTH 30-100M.)
APRIL
NO DATA

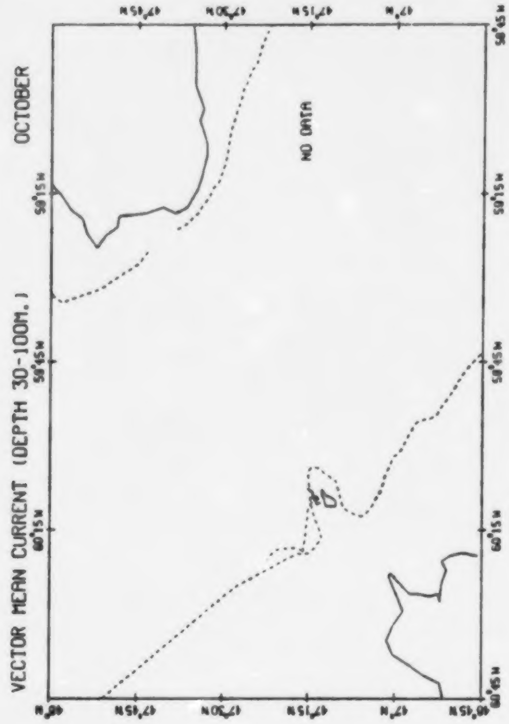

VECTOR MEAN CURRENT (DEPTH 30-100M.)
MAY
NO DATA

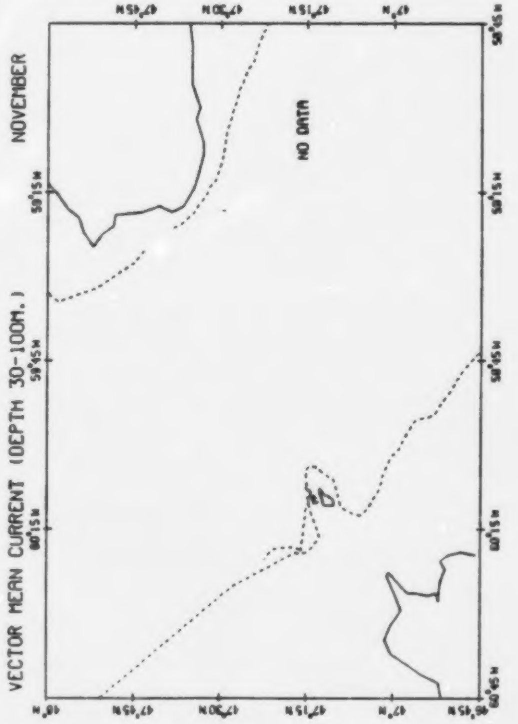

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JUNE
.10 M/S

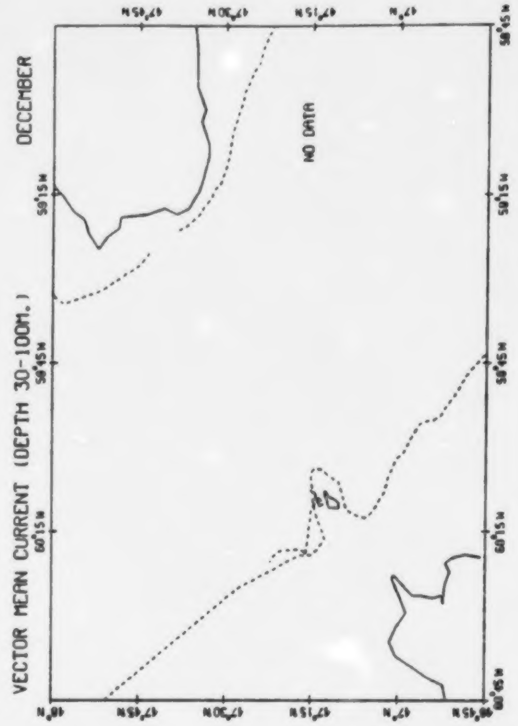

VECTOR MEAN CURRENT (DEPTH 30-100M.)
JULY
.10 M/S

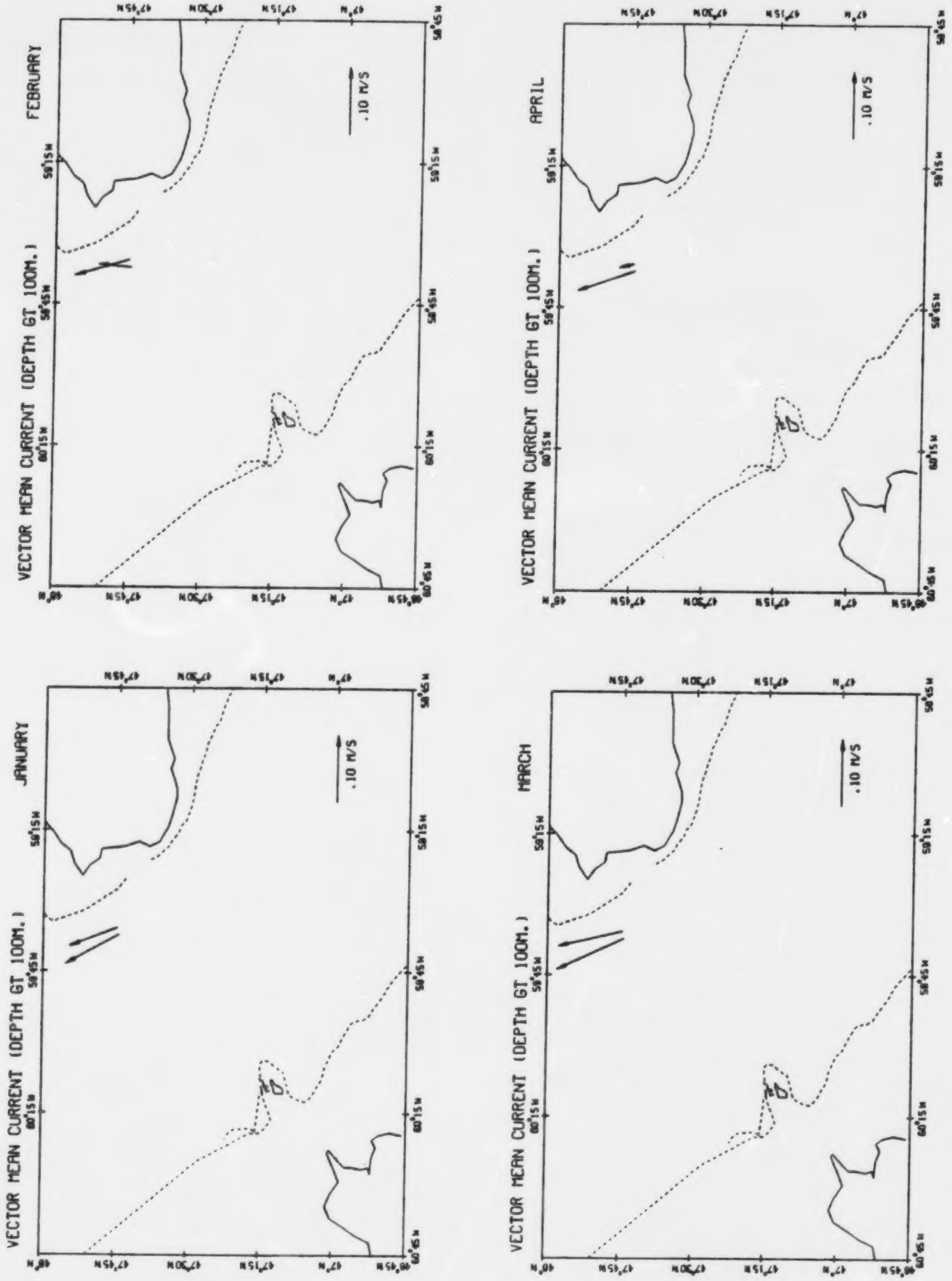

VECTOR MEAN CURRENT (DEPTH 30-100M.)
AUGUST
.10 M/S

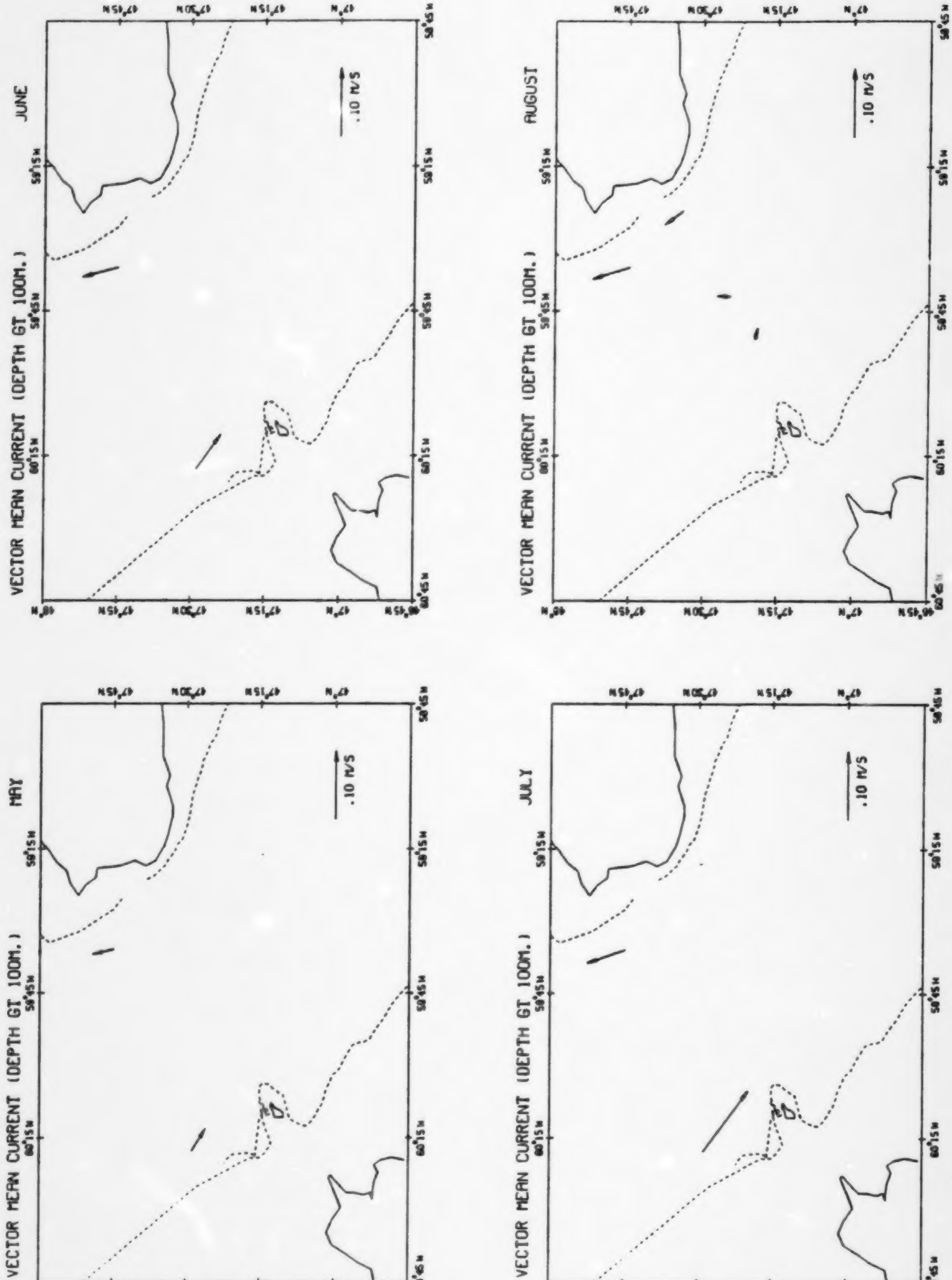

VECTOR MEAN CURRENT (DEPTH 30-100M.) SEPTEMBER
NO DATA

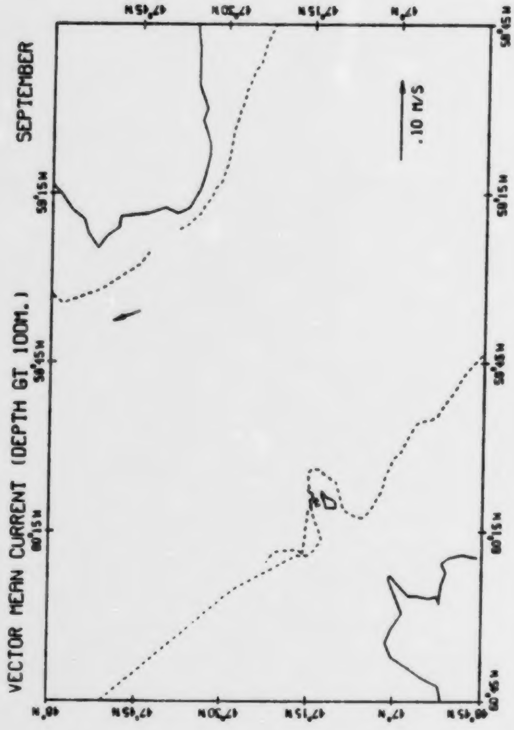

VECTOR MEAN CURRENT (DEPTH 30-100M.) OCTOBER
NO DATA

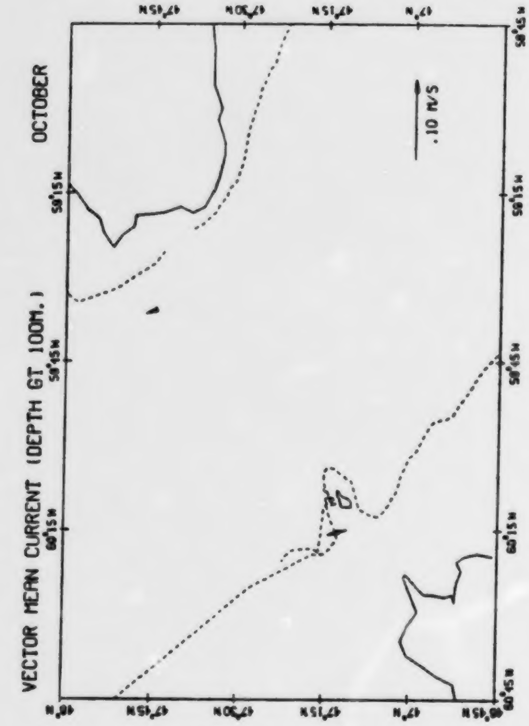

VECTOR MEAN CURRENT (DEPTH 30-100M.) NOVEMBER
NO DATA

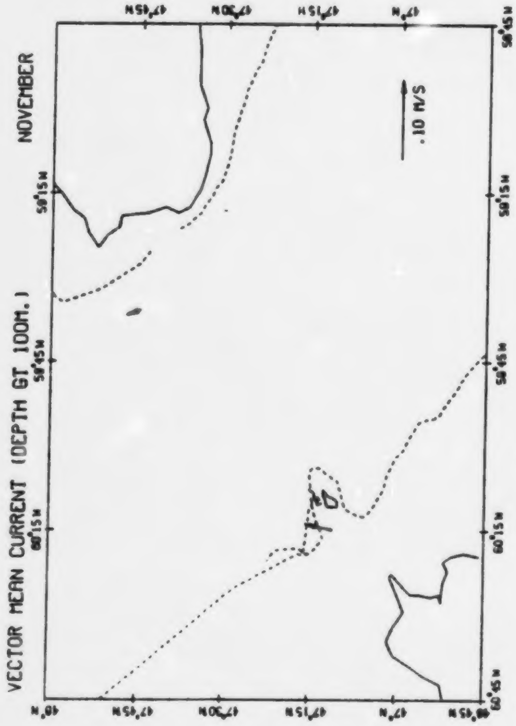

VECTOR MEAN CURRENT (DEPTH 30-100M.) DECEMBER
NO DATA

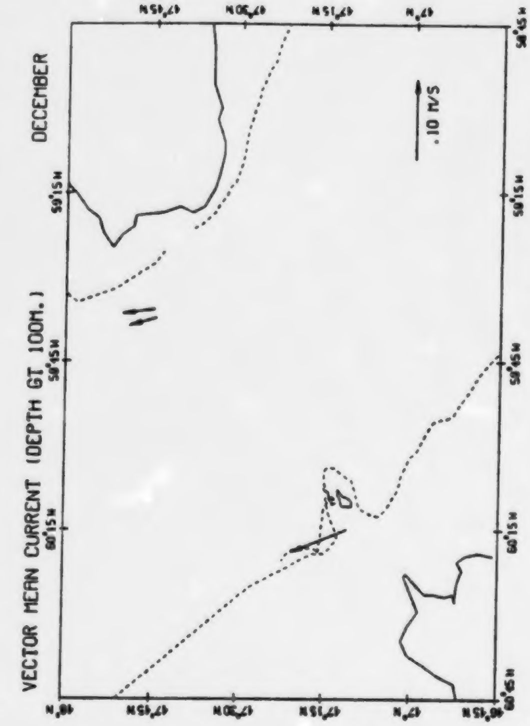

VECTOR MEAN CURRENT (DEPTH GT 100M.) JANUARY
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) FEBRUARY
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) MARCH
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) APRIL
.10 M/S

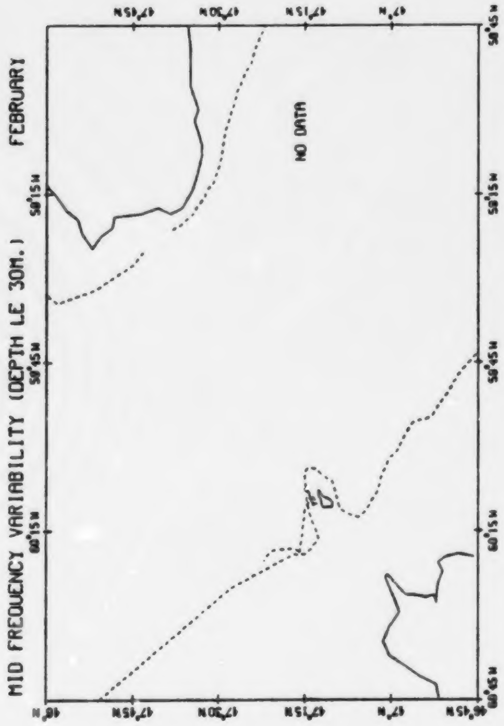

VECTOR MEAN CURRENT (DEPTH GT 100M.) JUNE
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) AUGUST
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) MAY
.10 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) JULY
.10 M/S

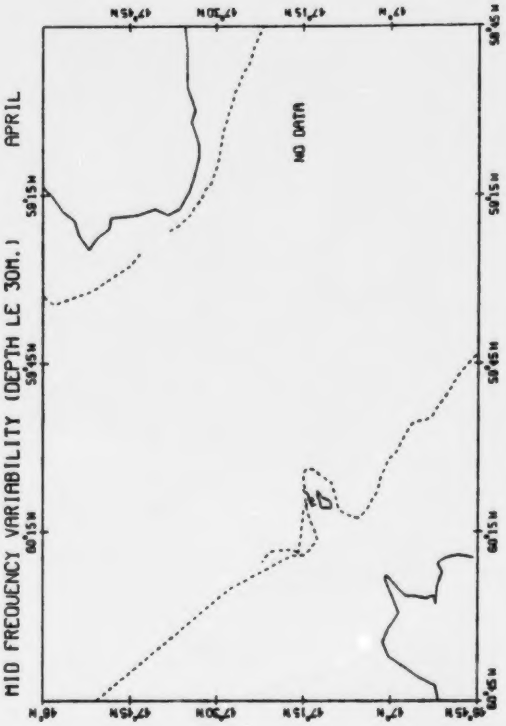

VECTOR MEAN CURRENT (DEPTH GT 100M.)
SEPTEMBER
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

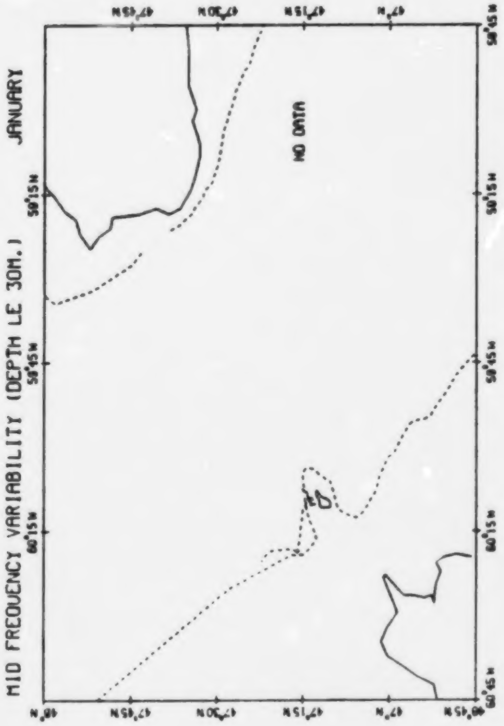

VECTOR MEAN CURRENT (DEPTH GT 100M.)
OCTOBER
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

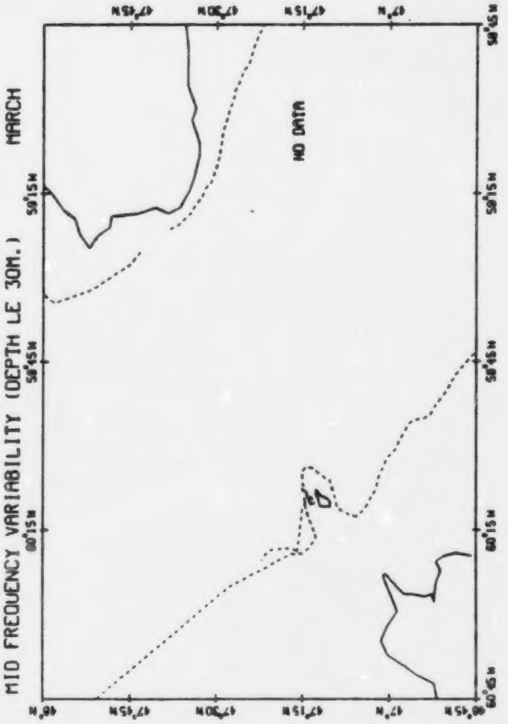

VECTOR MEAN CURRENT (DEPTH GT 100M.)
NOVEMBER
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

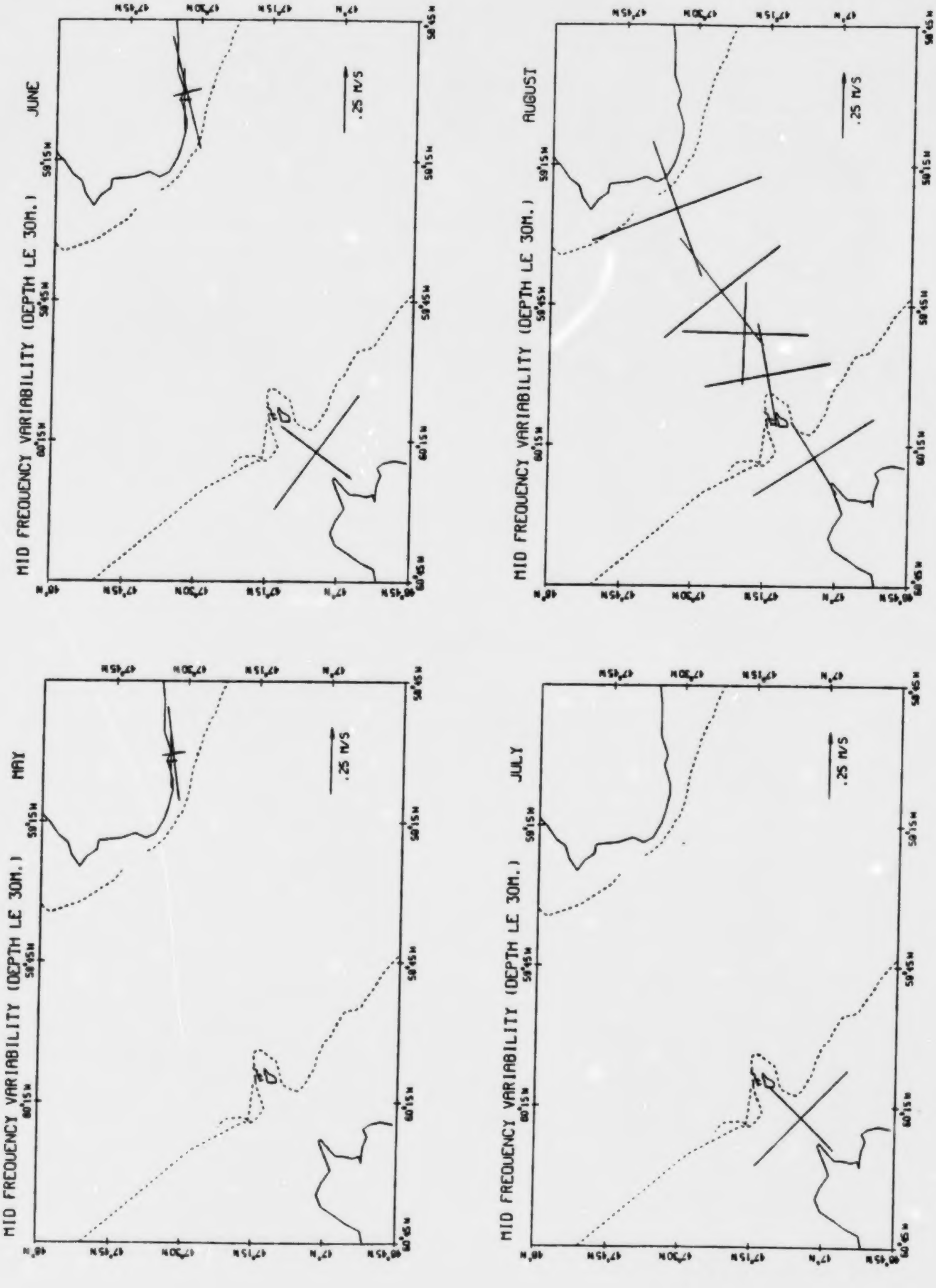

VECTOR MEAN CURRENT (DEPTH GT 100M.)
DECEMBER
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

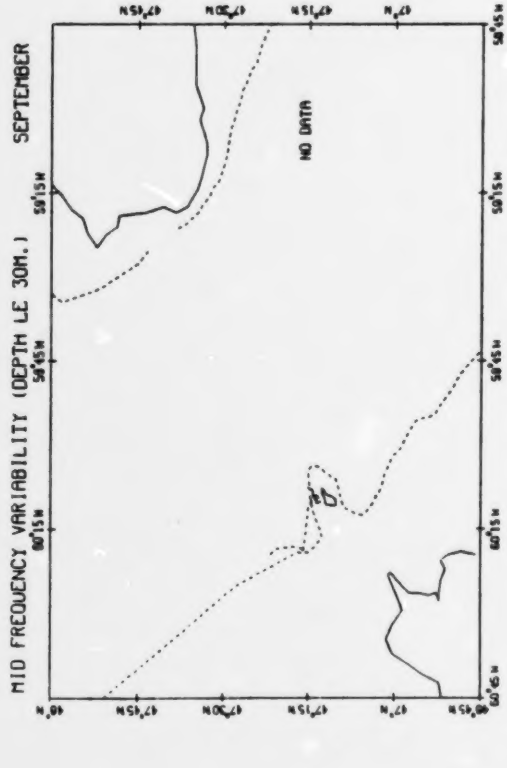

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) FEBRUARY
NO DATA
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

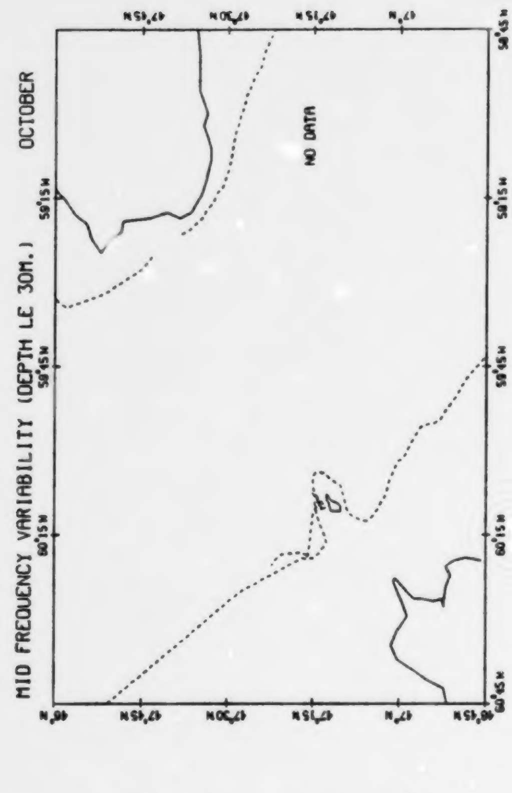

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) APRIL
NO DATA
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

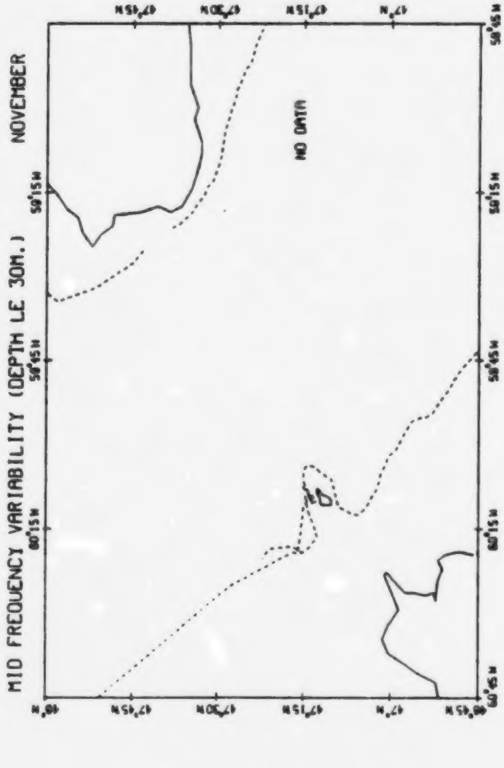

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JANUARY
NO DATA
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

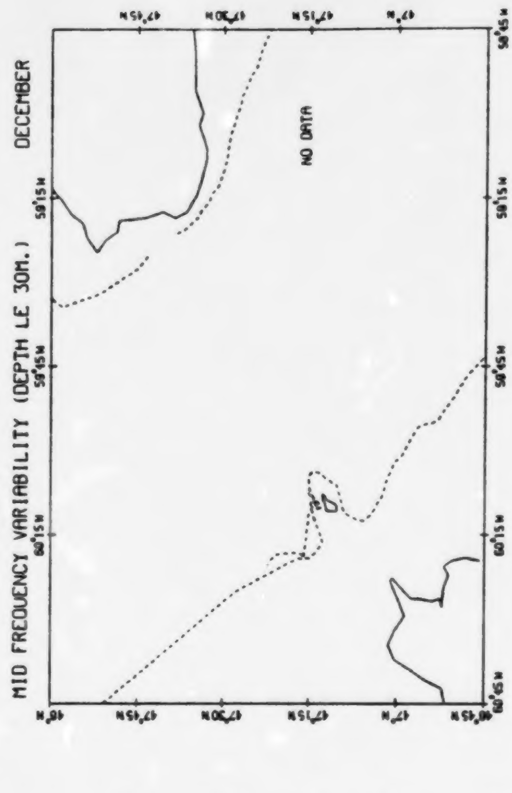

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) MARCH
NO DATA
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

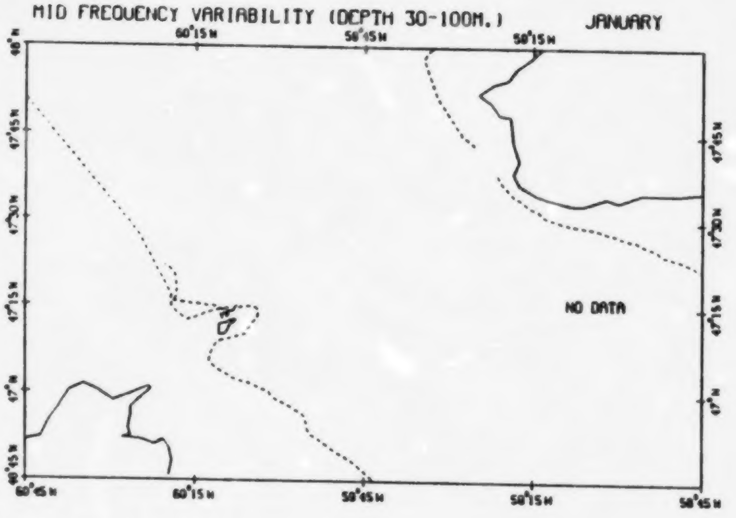

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) AUGUST
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) MAY
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JULY
.25 M/S

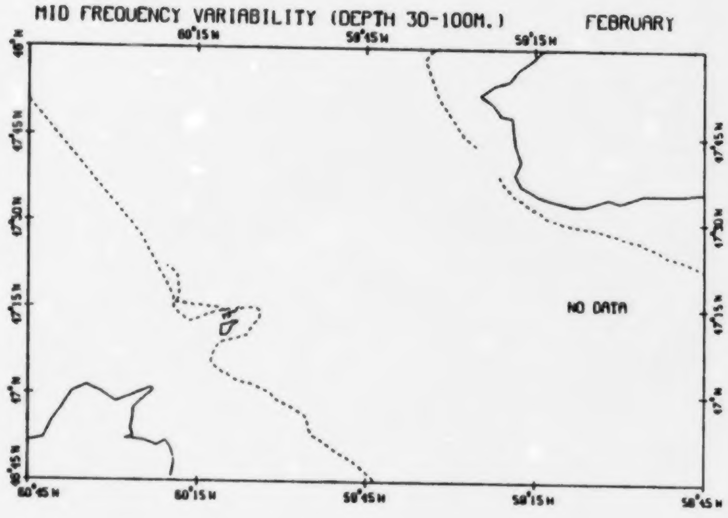

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
NO DATA

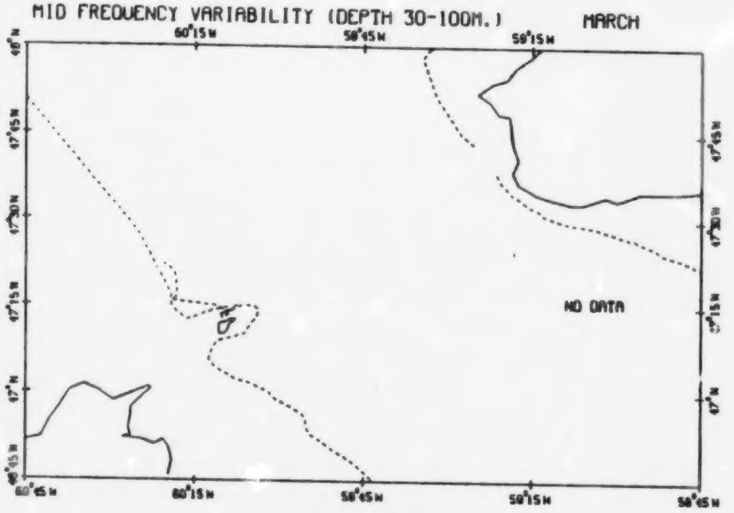

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
NO DATA

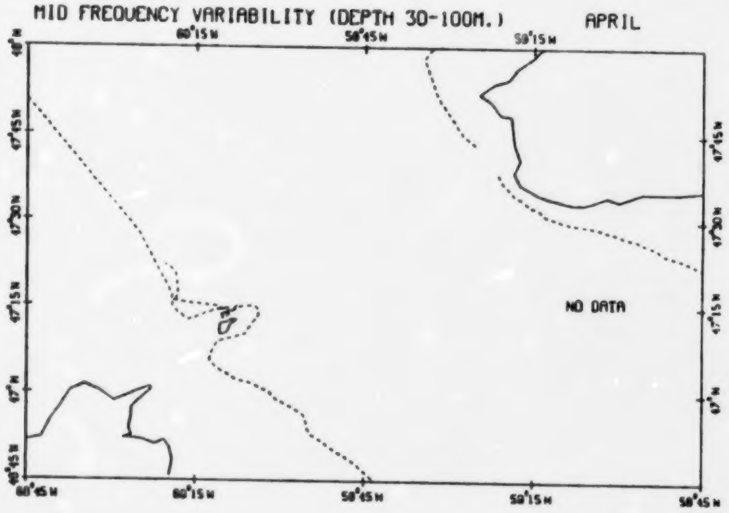

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
NOVEMBER
NO DATA

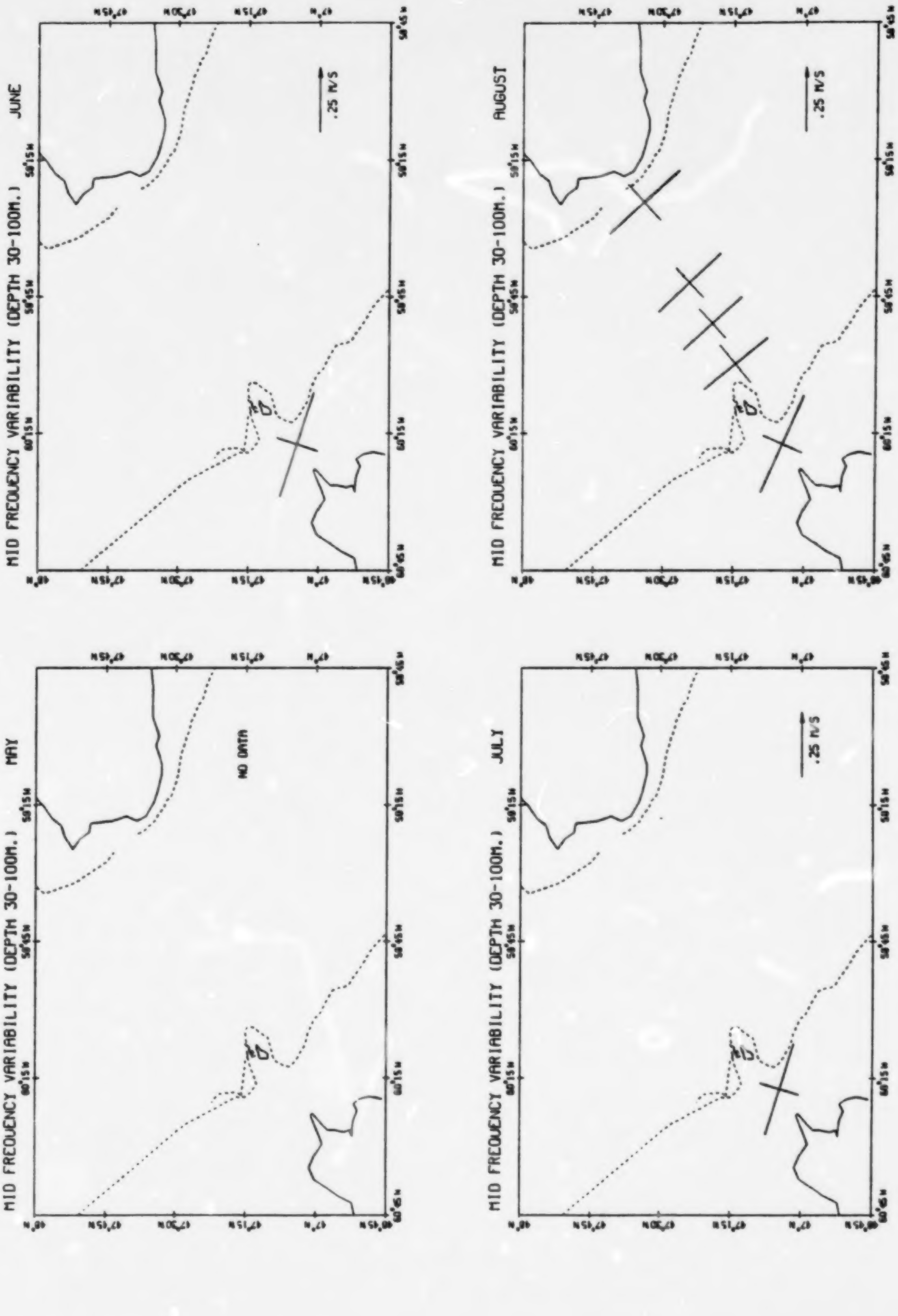

MID FREQUENCY VARIABILITY (DEPTH LE 30M.)
DECEMBER
NO DATA

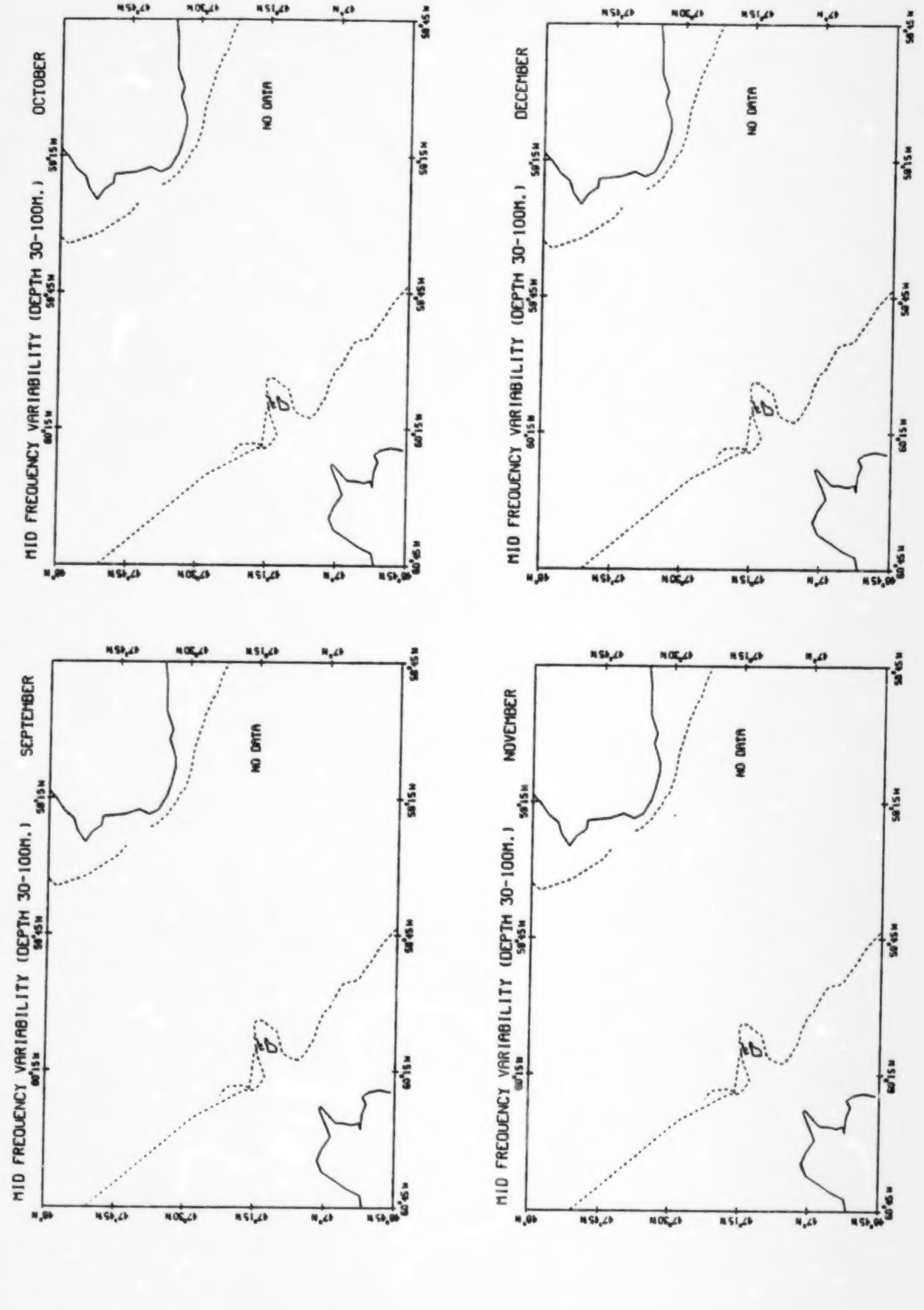

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
JANUARY
NO DATA

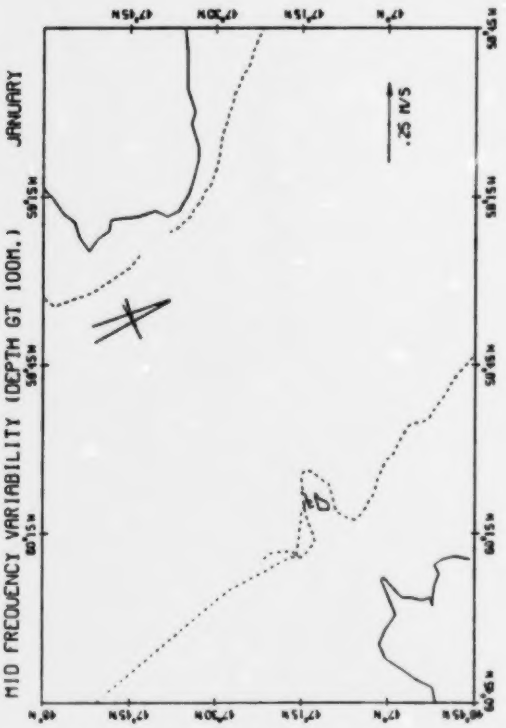

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
FEBRUARY
NO DATA

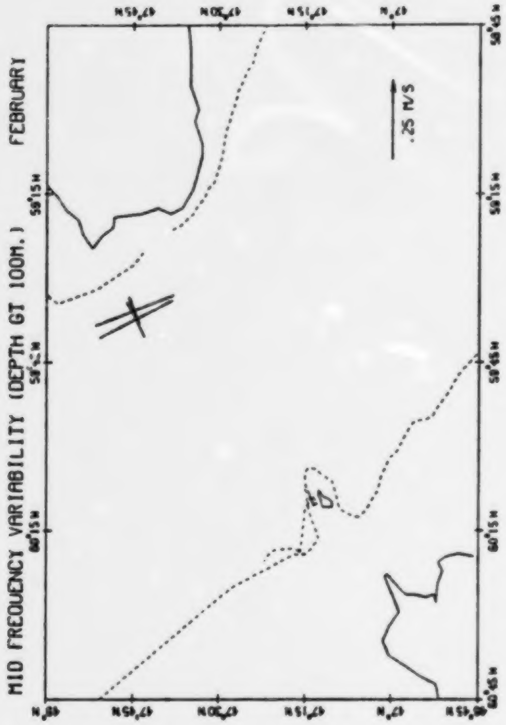

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
MARCH
NO DATA

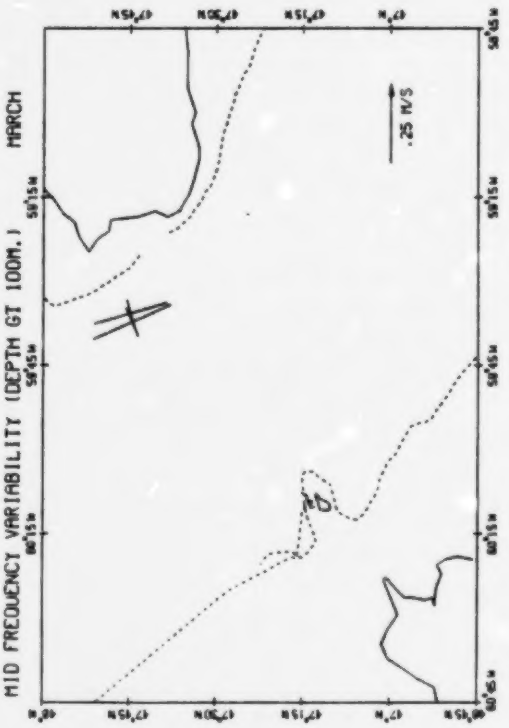

MID FREQUENCY VARIABILITY (DEPTH 30-100M.)
APRIL
NO DATA

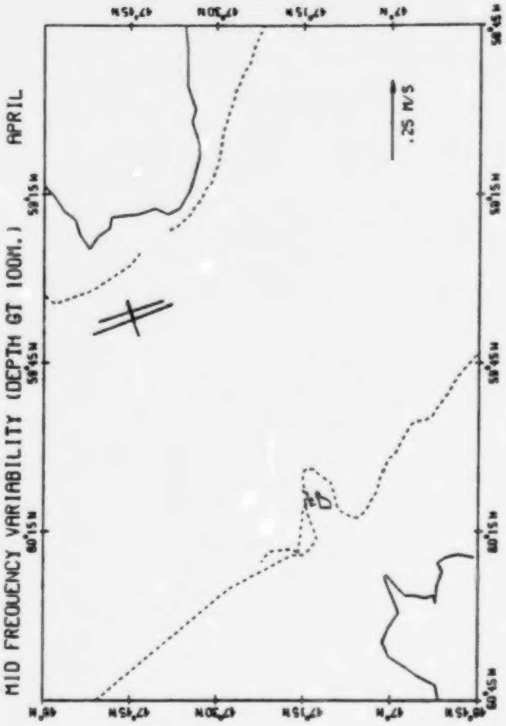

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) MAY
NO DATA
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JUNE
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JULY
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST
.25 M/S

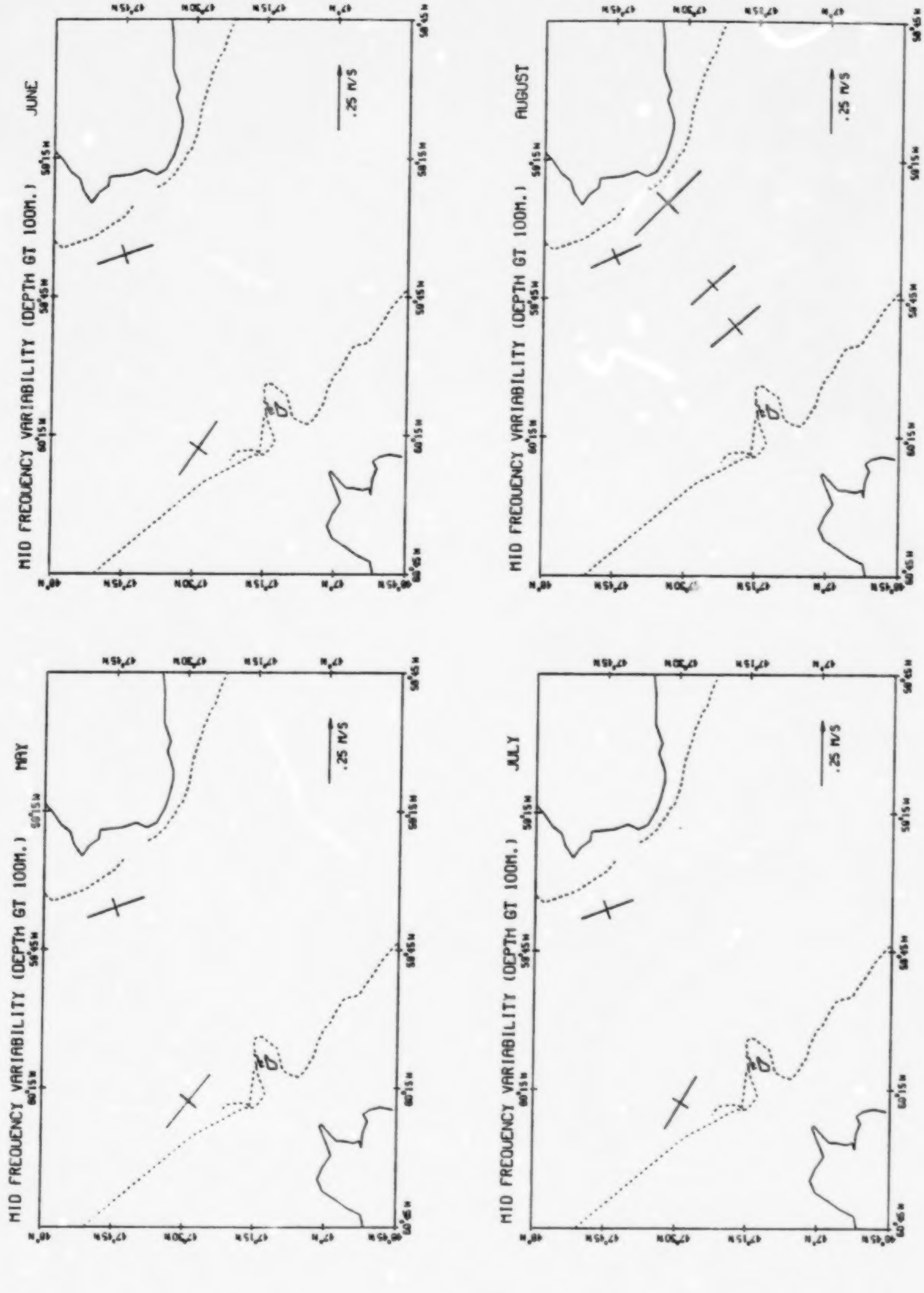

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
NO DATA
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER
NO DATA
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) NOVEMBER
NO DATA
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) DECEMBER
NO DATA

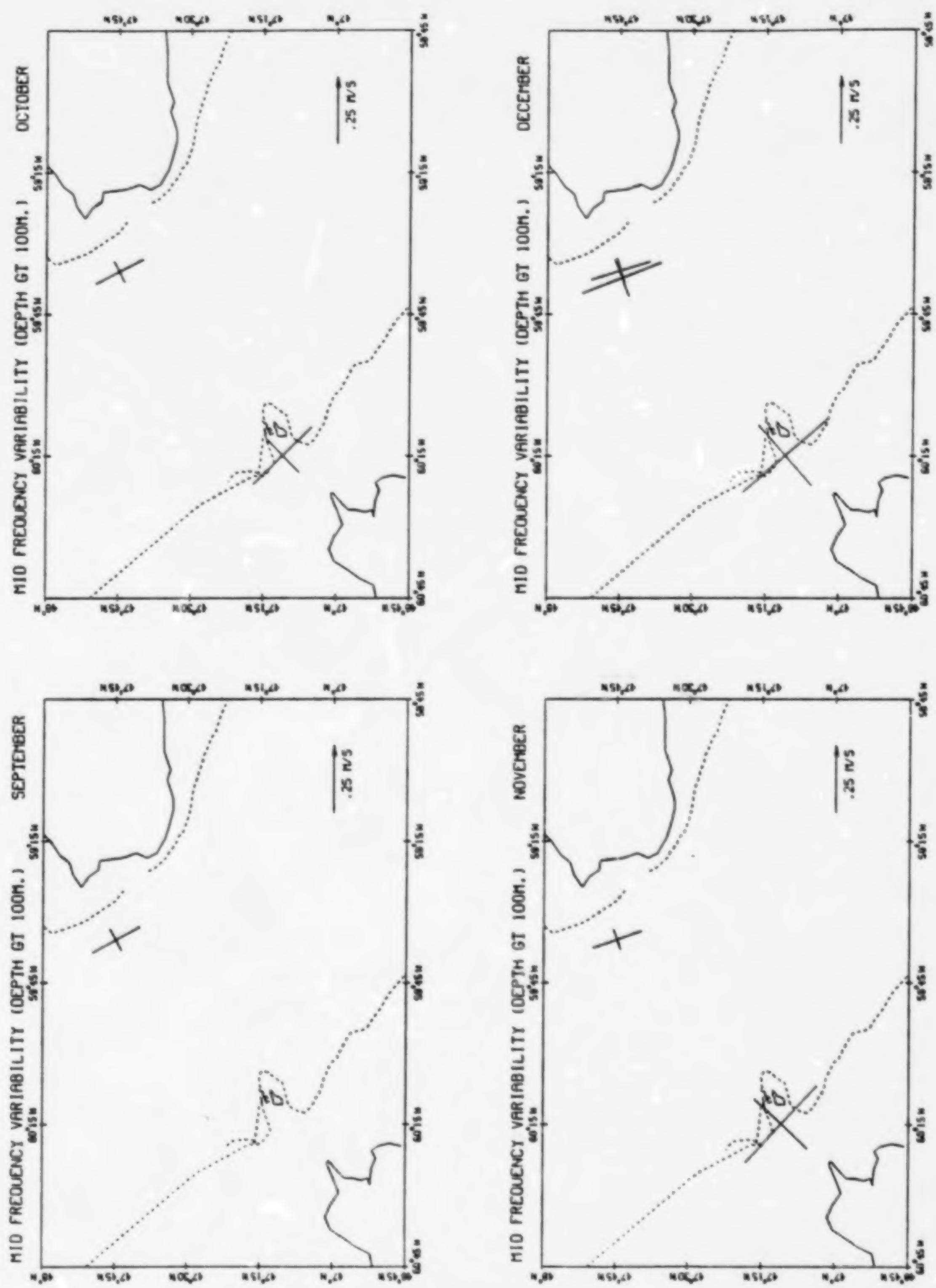

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JANUARY
.25 M/S

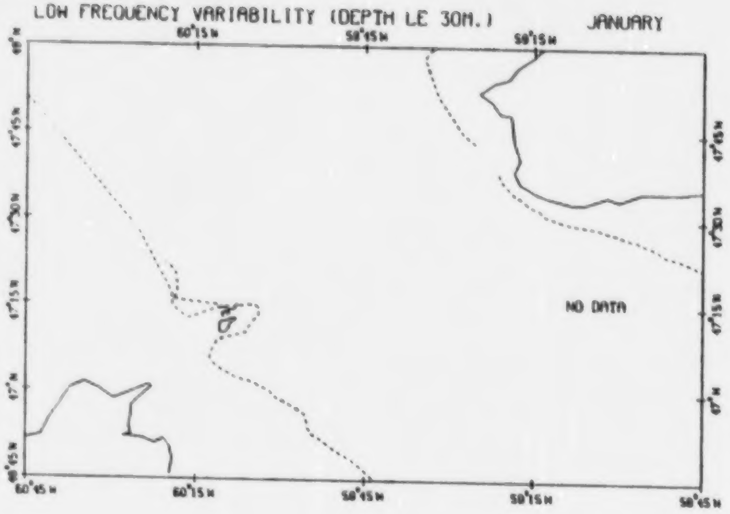

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) FEBRUARY
.25 M/S

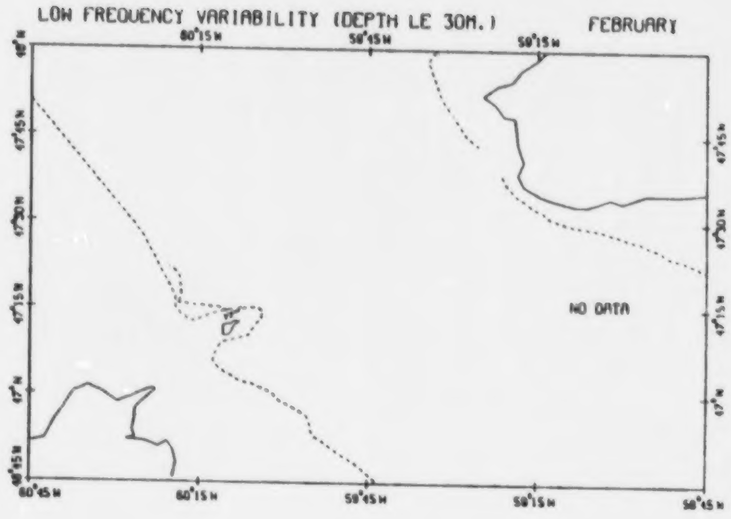

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) MARCH
.25 M/S

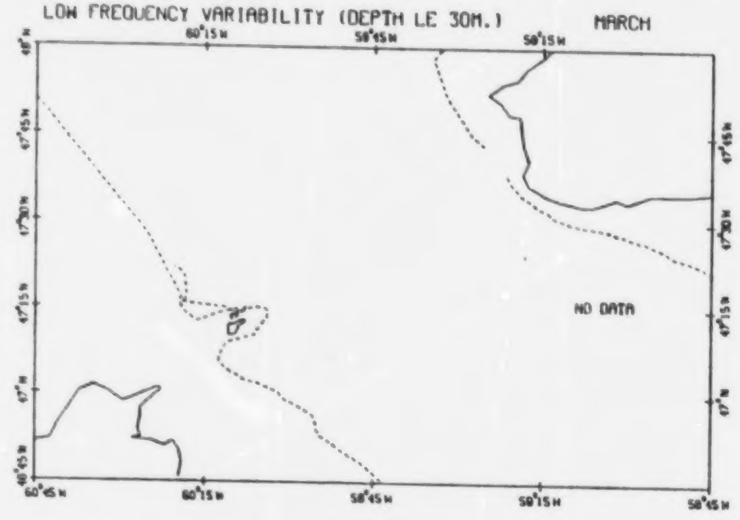

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) APRIL
.25 M/S

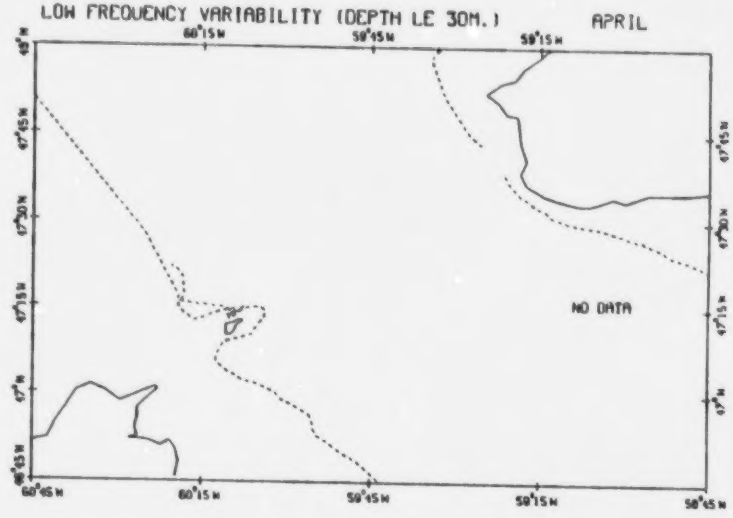

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) MAY
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
.25 M/S

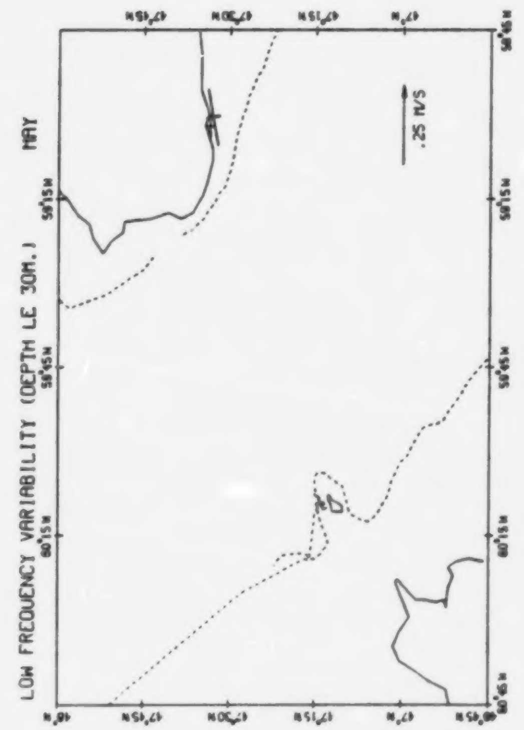

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) OCTOBER
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) NOVEMBER
.25 M/S
MID FREQUENCY VARIABILITY (DEPTH GT 100M.) DECEMBER
.25 M/S

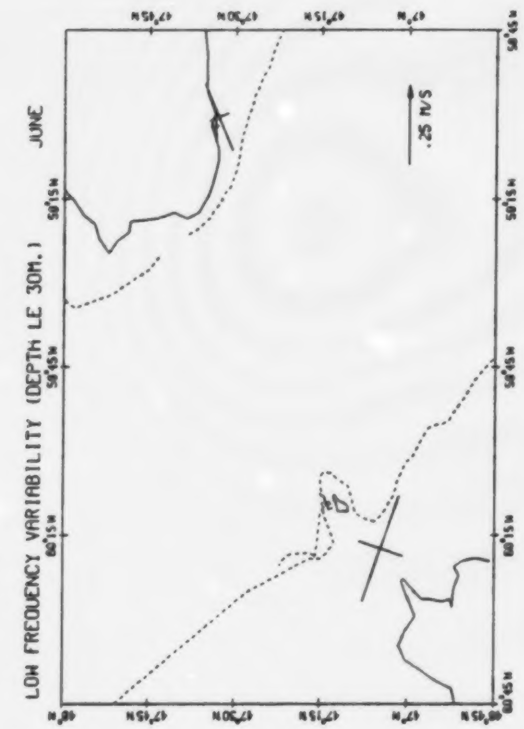

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JANUARY
NO DATA
60°15W
59°45W
59°15W
60°45W
58°45W
48°N
47°45N
47°30N
47°15N
47°N
46°45N

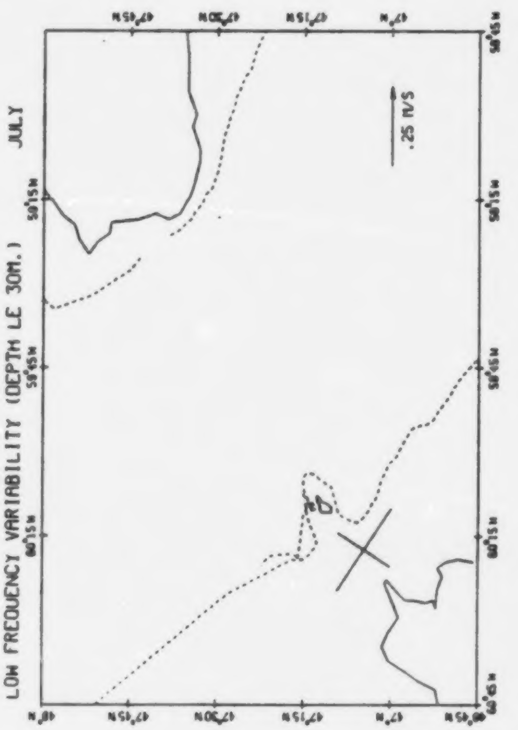

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) FEBRUARY
NO DATA
60°15W
59°45W
59°15W
60°45W
58°45W
48°N
47°45N
47°30N
47°15N
47°N
46°45N

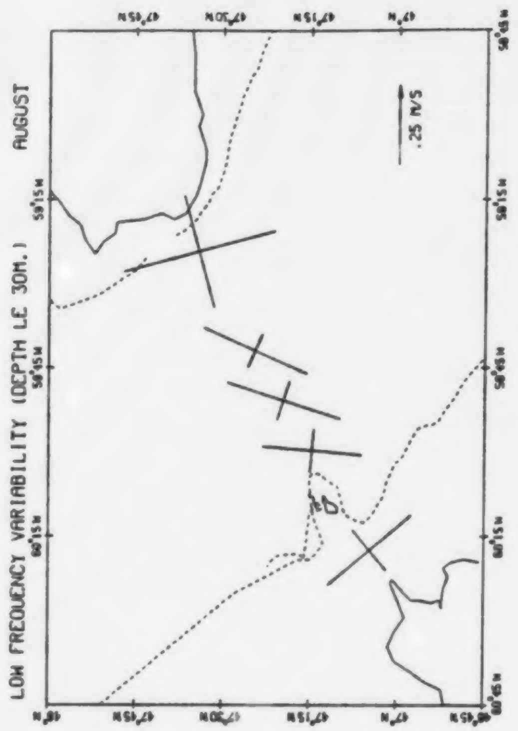

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) MARCH
NO DATA
60°15W
59°45W
59°15W
60°45W
58°45W
48°N
47°45N
47°30N
47°15N
47°N
46°45N


LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) APRIL
NO DATA
60°15W
59°45W
59°15W
60°45W
58°45W
48°N
47°45N
47°30N
47°15N
47°N
46°45N

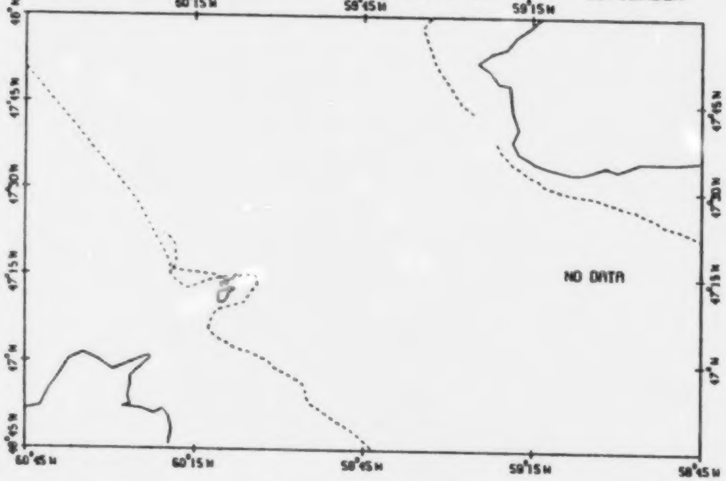

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
MAY
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JUNE
.25 M/S

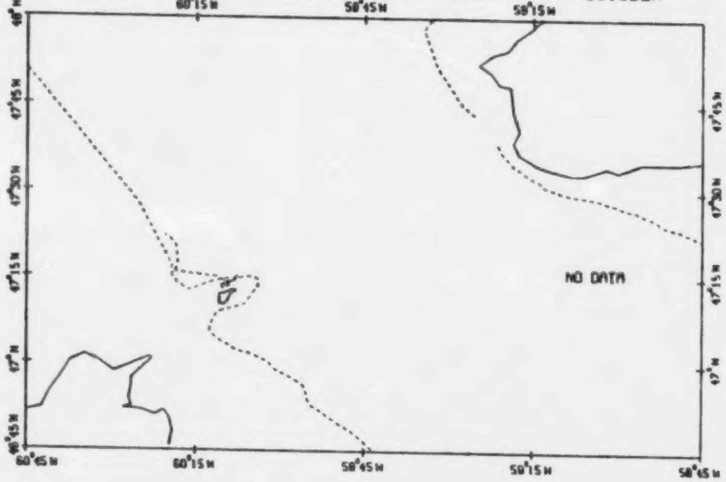

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
JULY
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
AUGUST
.25 M/S

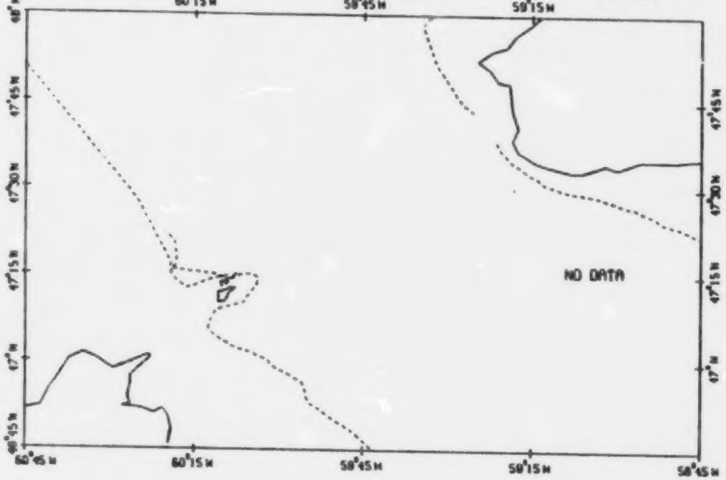
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) SEPTEMBER



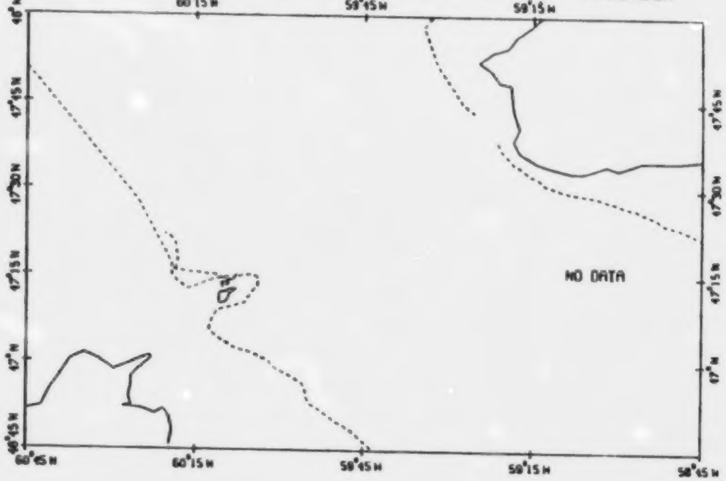
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) OCTOBER

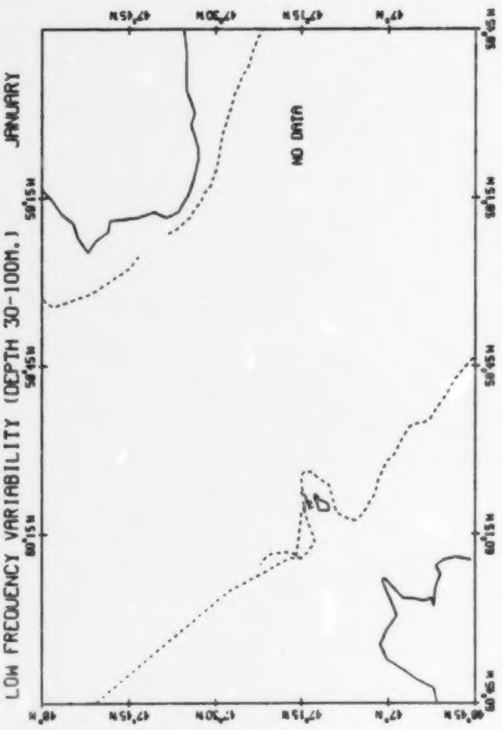


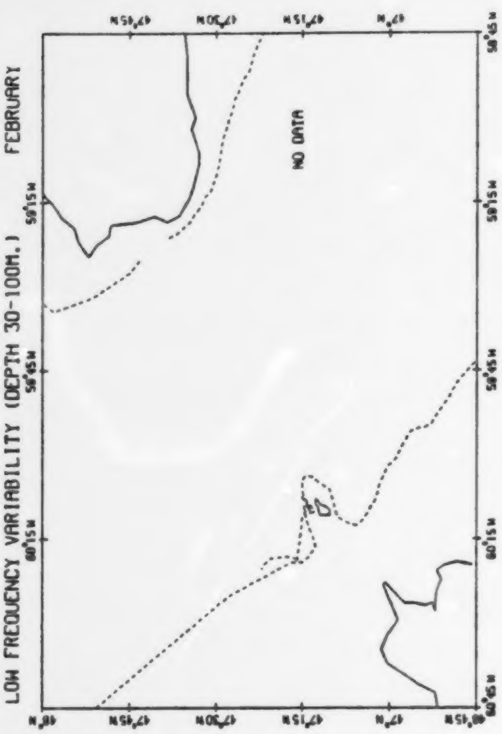
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) NOVEMBER

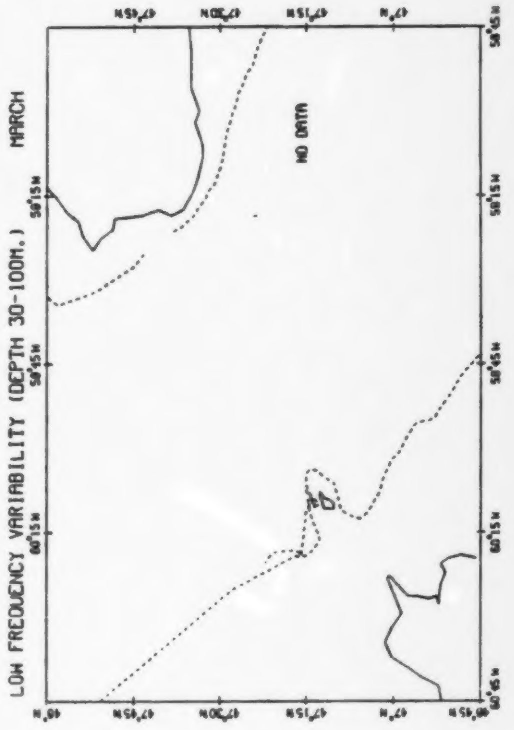


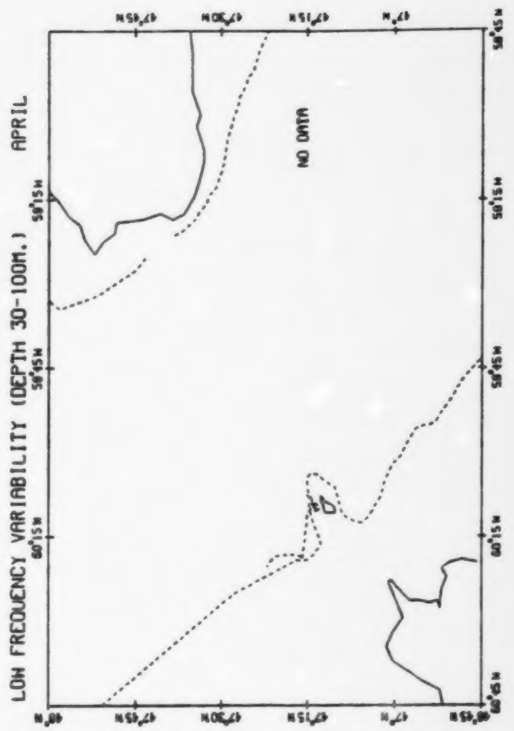
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) DECEMBER

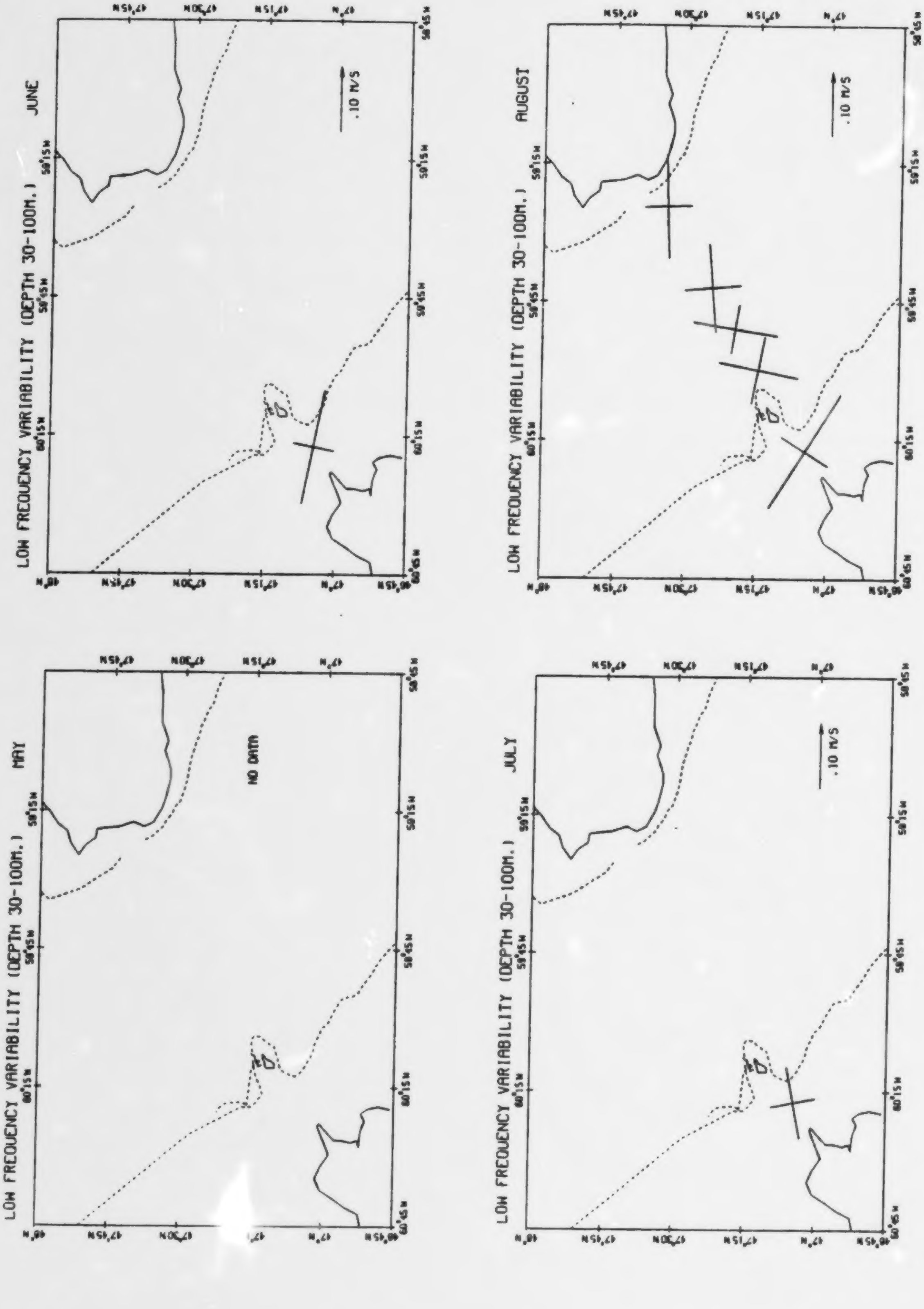


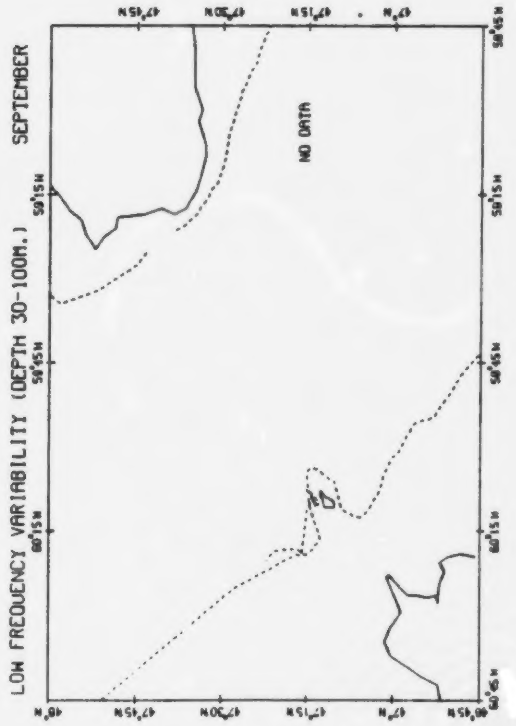

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JANUARY
NO DATA

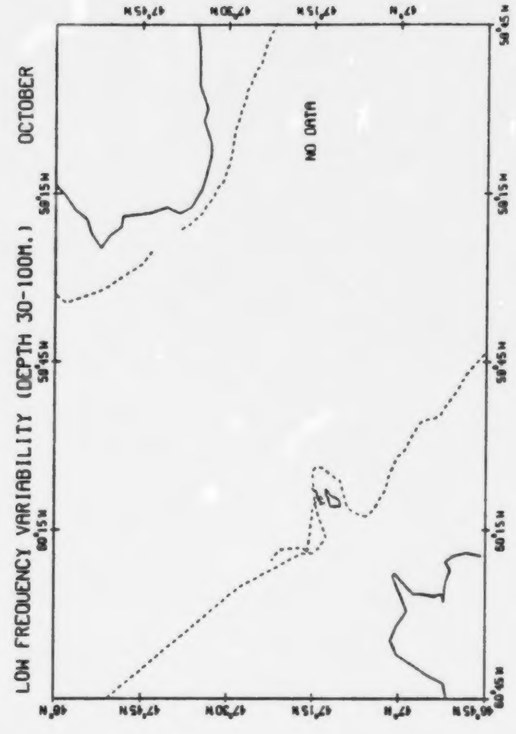

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) FEBRUARY
NO DATA

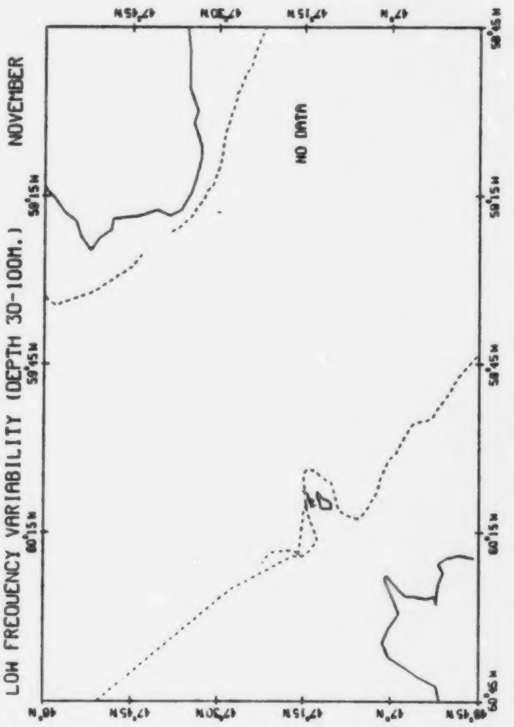

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) MARCH
NO DATA

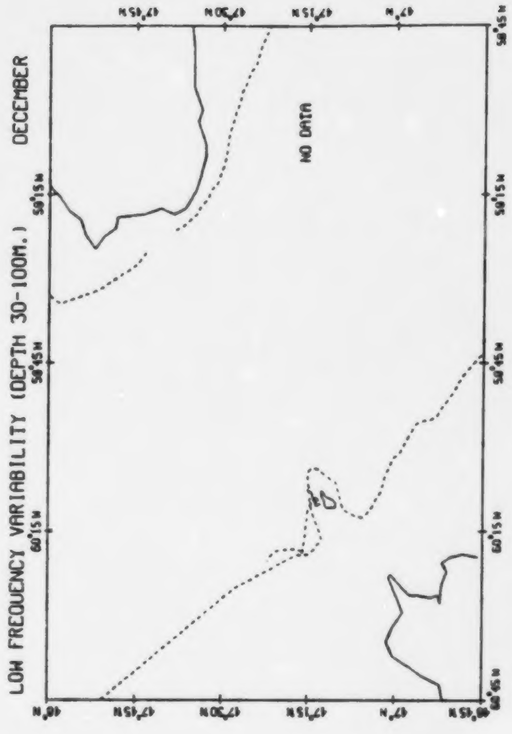

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) APRIL
NO DATA

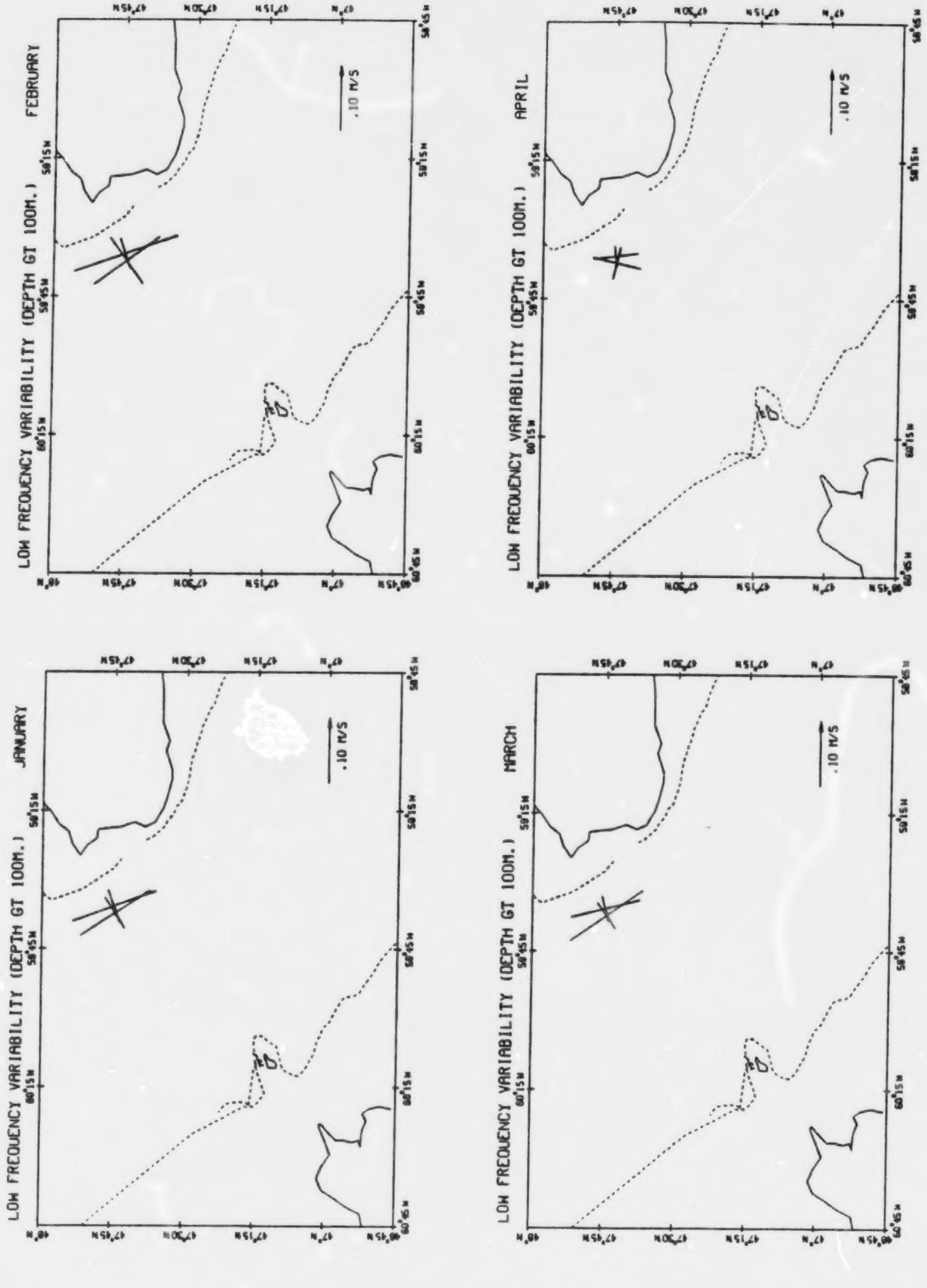

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JUNE
.10 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST
.10 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) MAY
NO DATA
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JULY
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

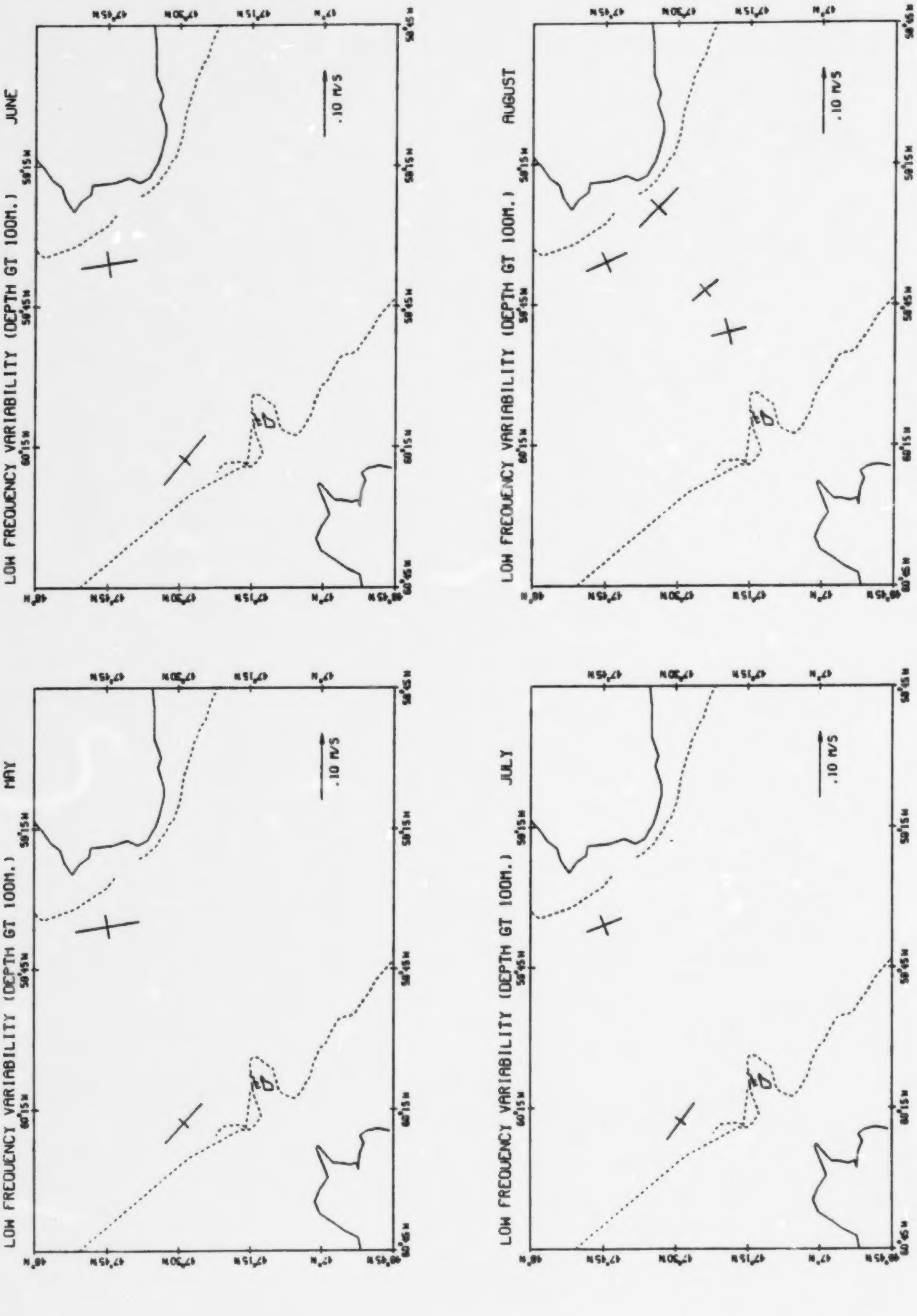

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
NO DATA

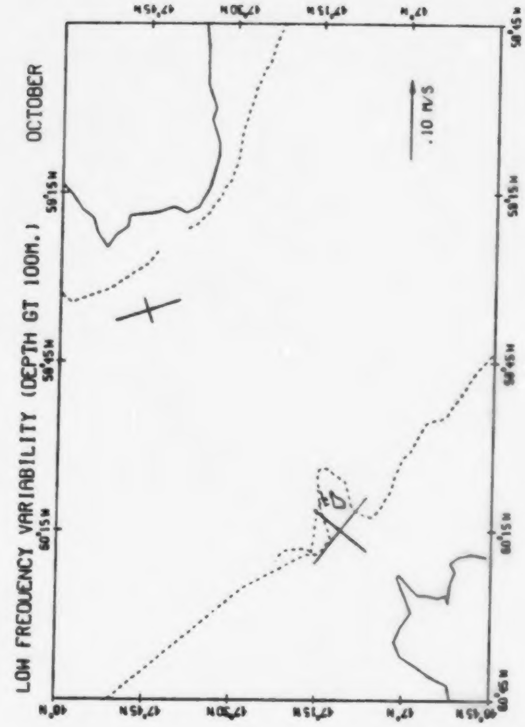

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER
NO DATA

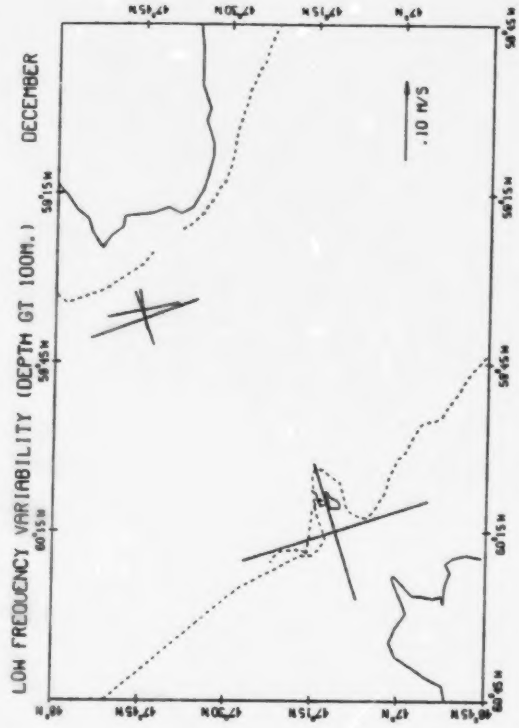

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) NOVEMBER
NO DATA

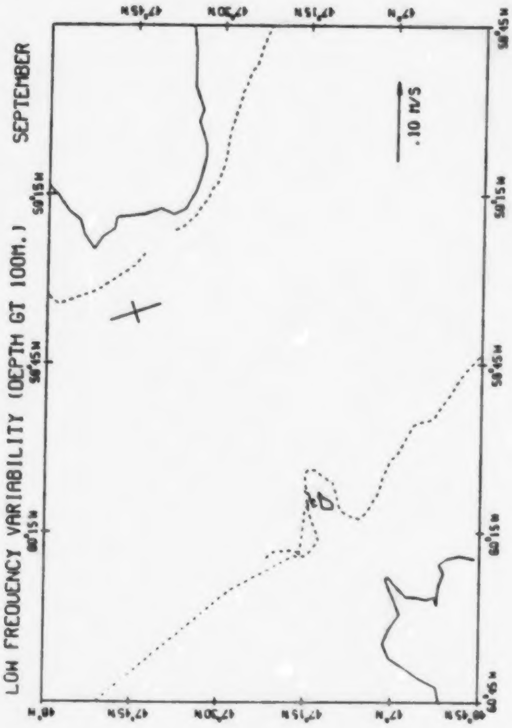

LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) DECEMBER
NO DATA

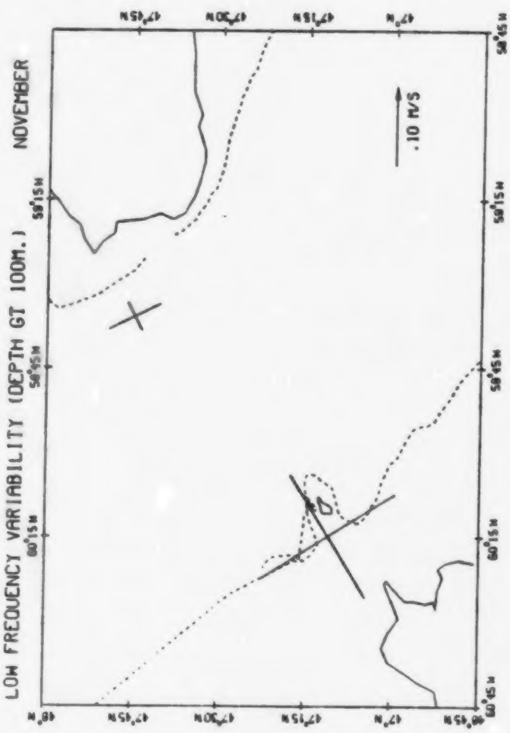

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JANUARY
.10 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) FEBRUARY
.10 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) MARCH
.10 M/S
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) APRIL
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) MAY
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.10 M/S
48°N
47°45N
47°30N
47°15N
47°N
46°45N
60°45W
60°15W
59°45W
59°15W
58°45W

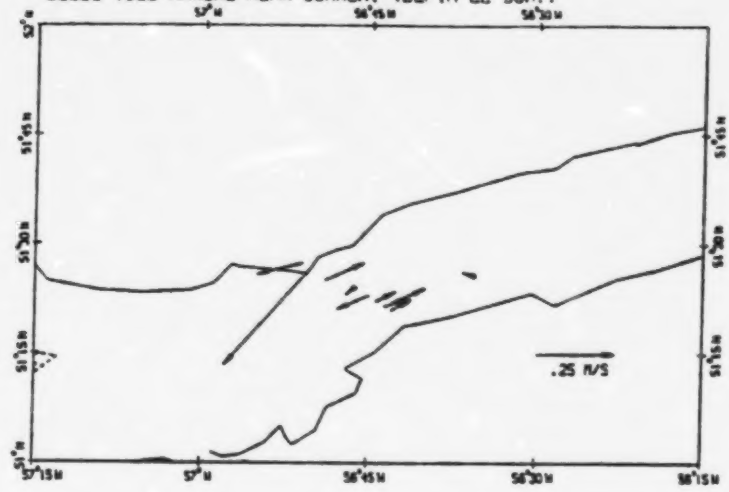

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) OCTOBER
.10 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) DECEMBER
.10 M/S

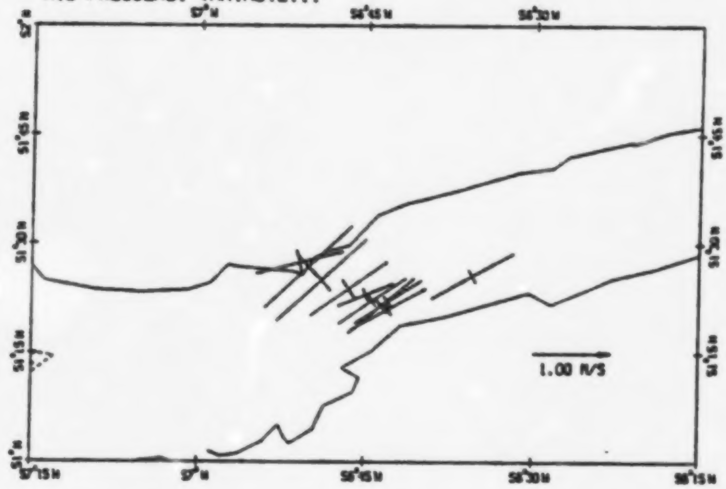

LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.10 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) NOVEMBER
.10 M/S

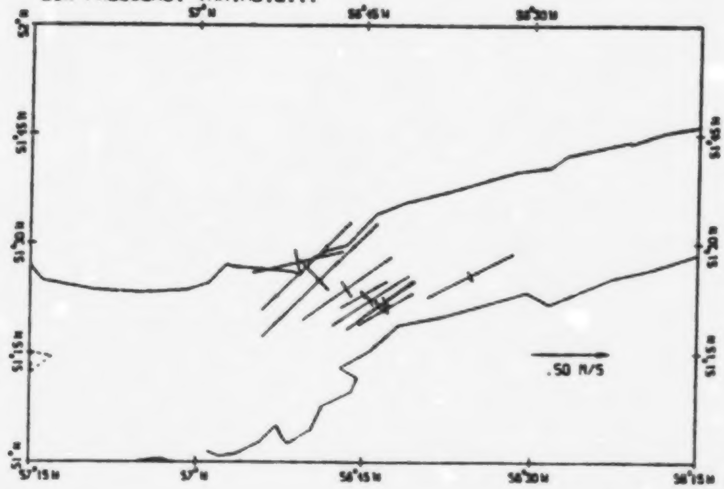
BELLE ISLE ANNUAL MEAN CURRENT (DEPTH LE 30M.)



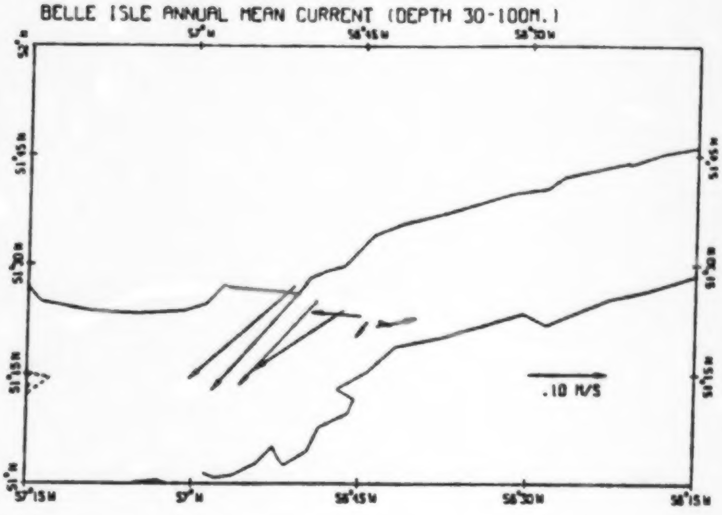
MID FREQUENCY VARIABILITY



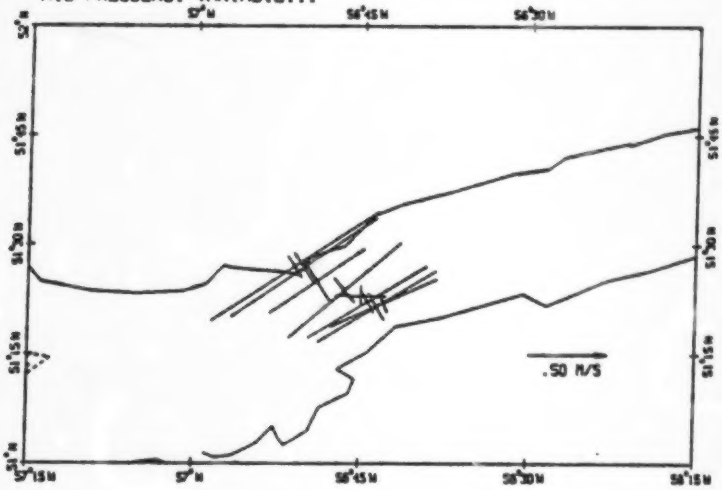
LOW FREQUENCY VARIABILITY



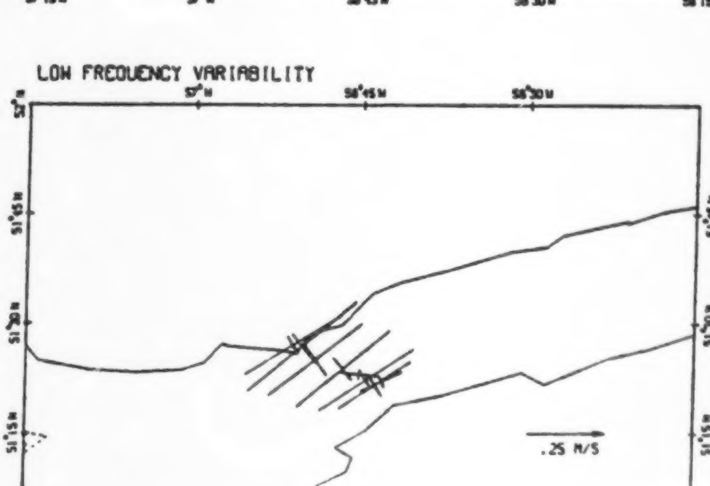
BELLE ISLE ANNUAL MEAN CURRENT (DEPTH 30-100M.)



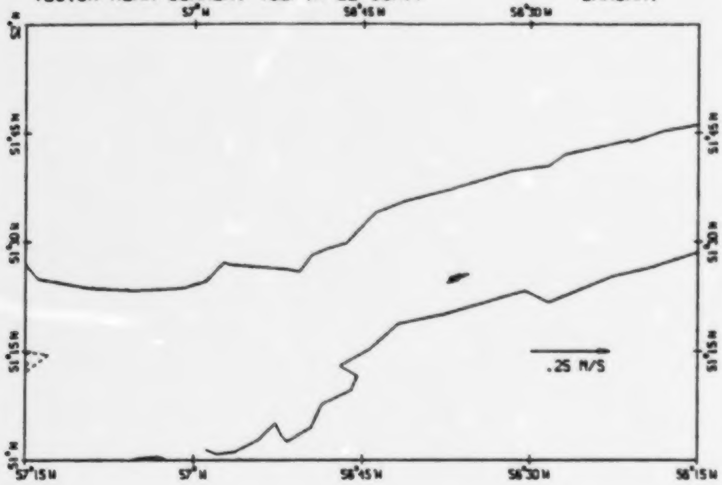
MID FREQUENCY VARIABILITY



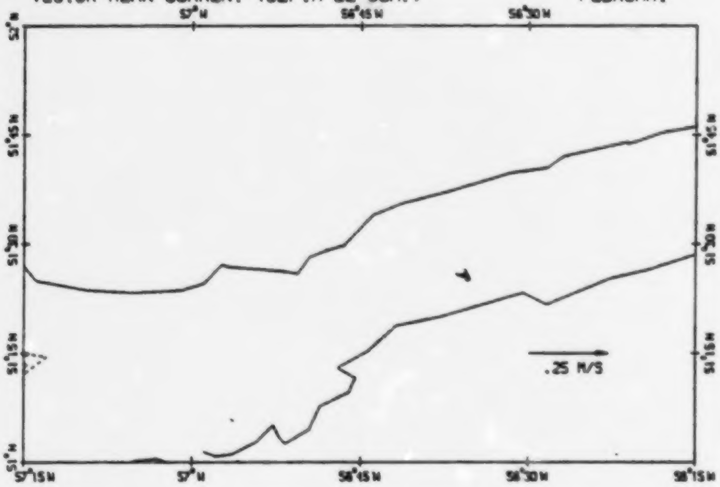
LOW FREQUENCY VARIABILITY



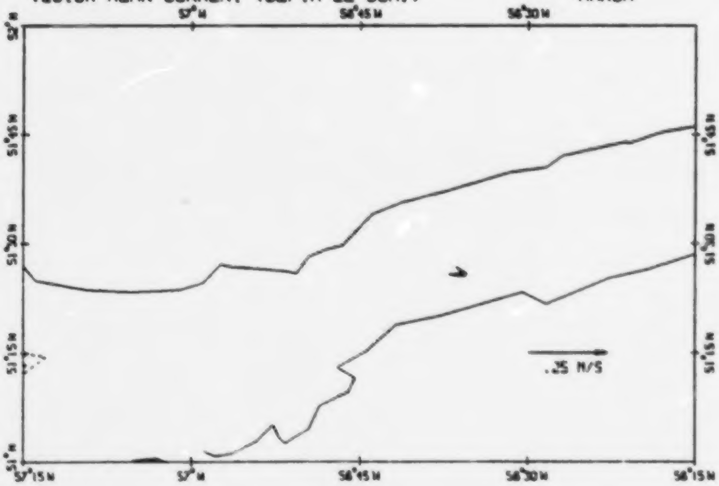
VECTOR MEAN CURRENT (DEPTH LE 30M.) JANUARY



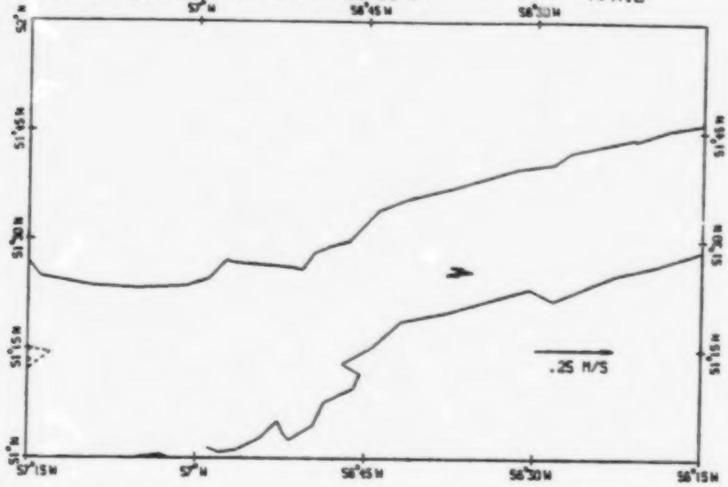
VECTOR MEAN CURRENT (DEPTH LE 30M.) FEBRUARY



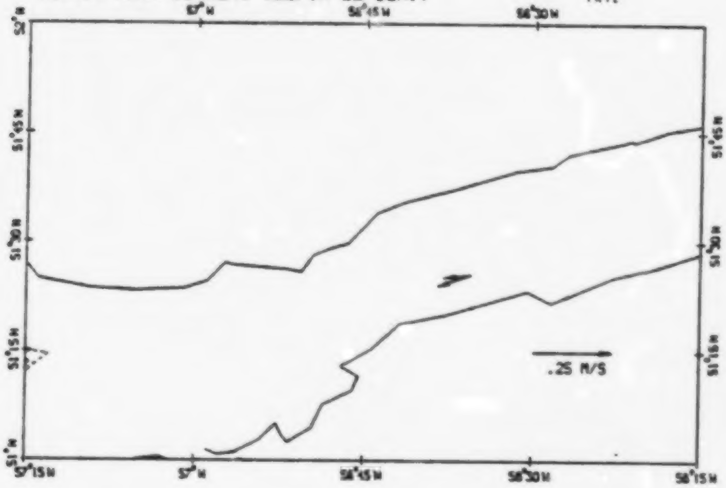
VECTOR MEAN CURRENT (DEPTH LE 30M.) MARCH



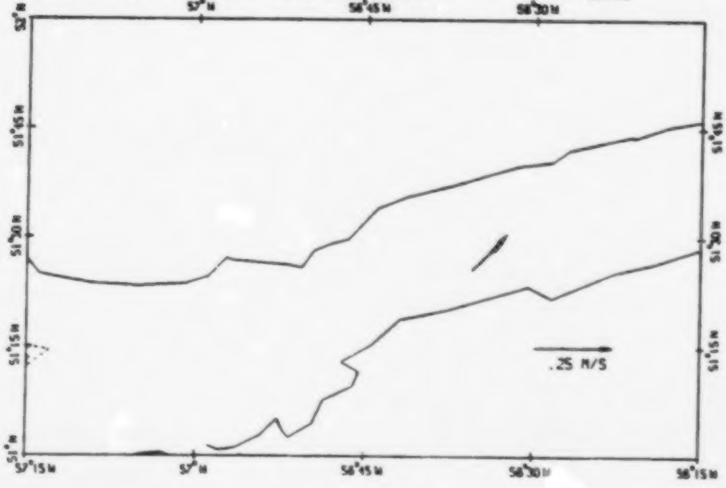
VECTOR MEAN CURRENT (DEPTH LE 30M.) APRIL



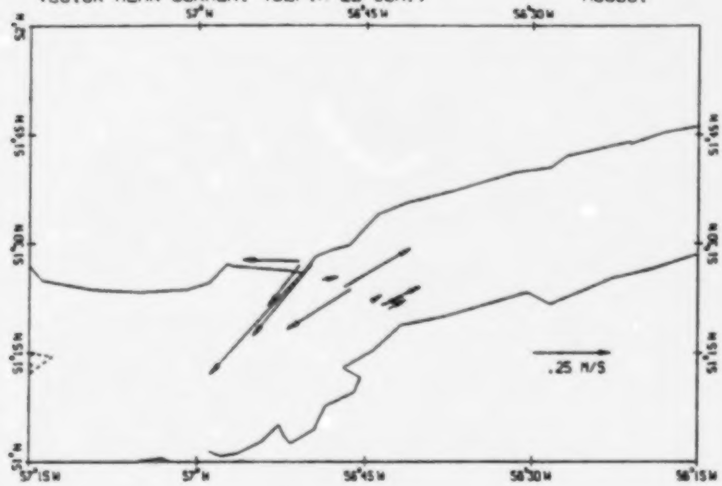
VECTOR MEAN CURRENT (DEPTH LE 30M.) MAY



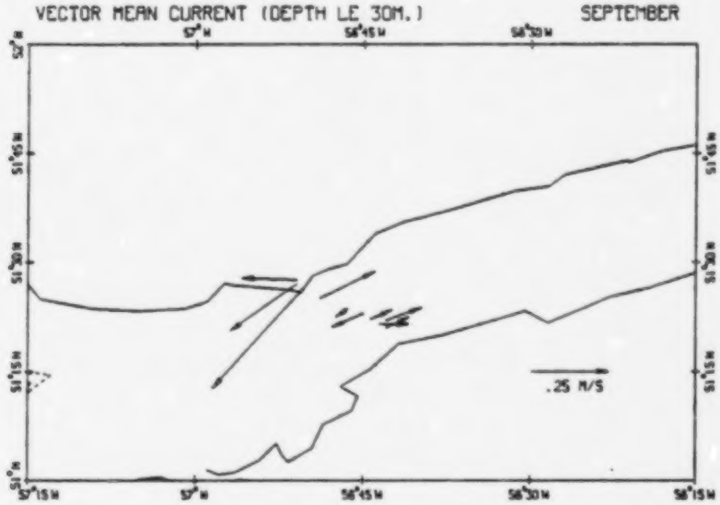
VECTOR MEAN CURRENT (DEPTH LE 30M.) JUNE



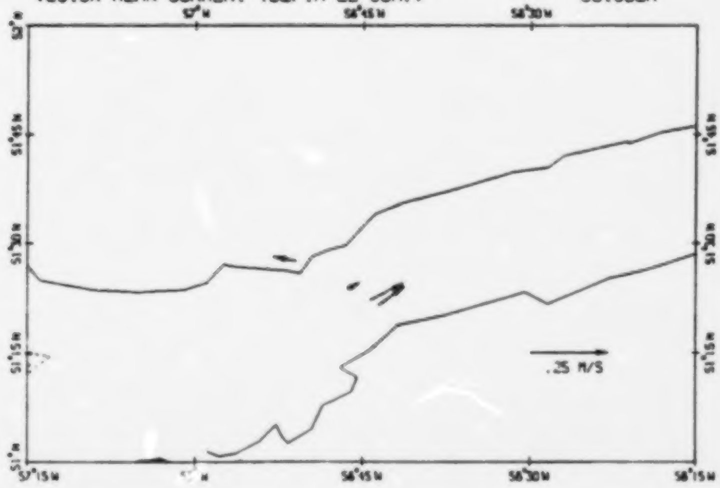
VECTOR MEAN CURRENT (DEPTH LE 30M.) AUGUST



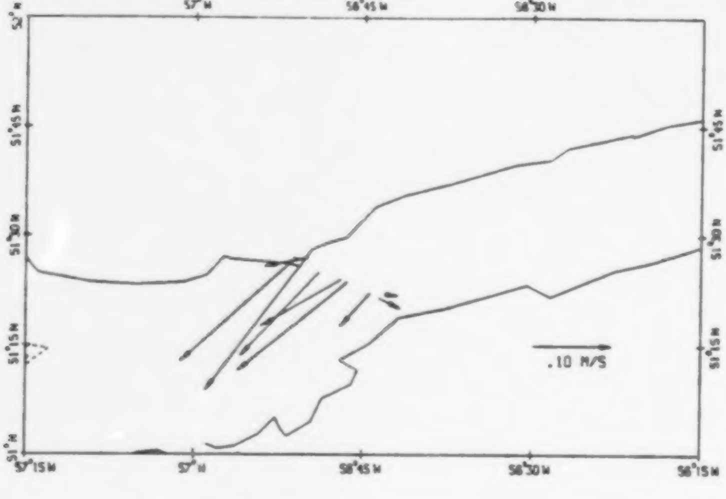
VECTOR MEAN CURRENT (DEPTH LE 30M.) SEPTEMBER



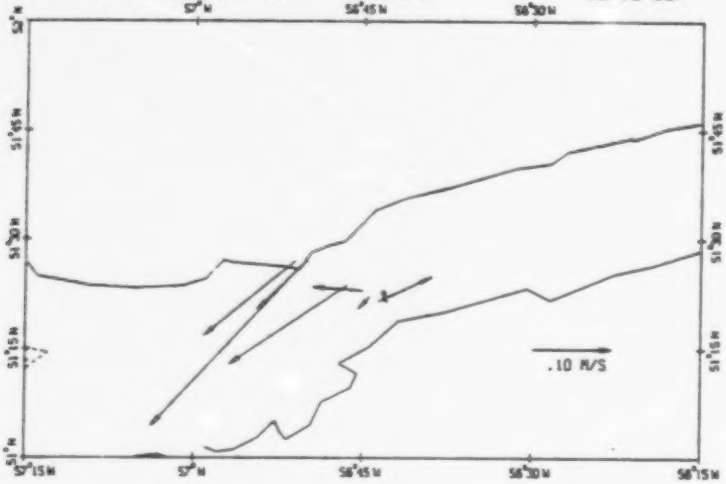
VECTOR MEAN CURRENT (DEPTH LE 30M.) OCTOBER



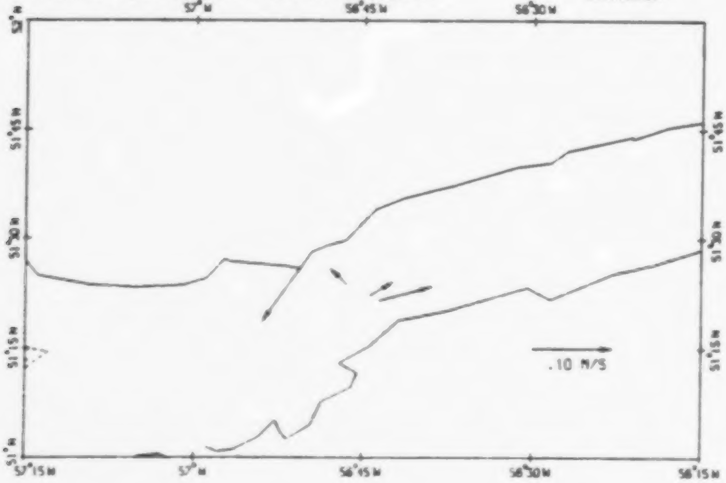
VECTOR MEAN CURRENT (DEPTH 30-100M.) AUGUST



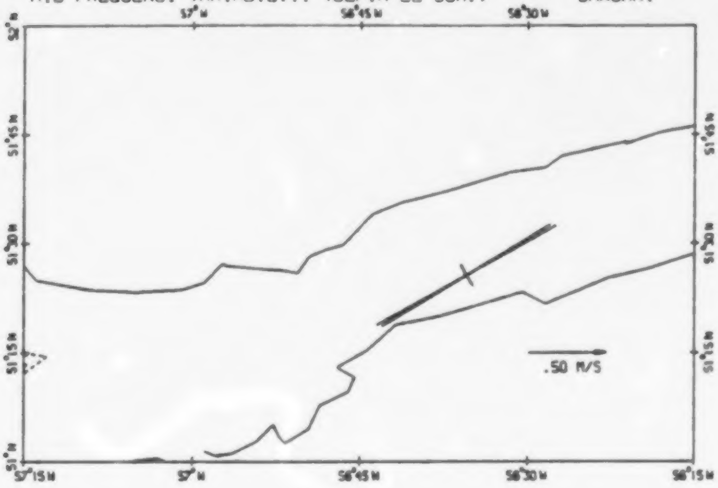
VECTOR MEAN CURRENT (DEPTH 30-100M.) SEPTEMBER



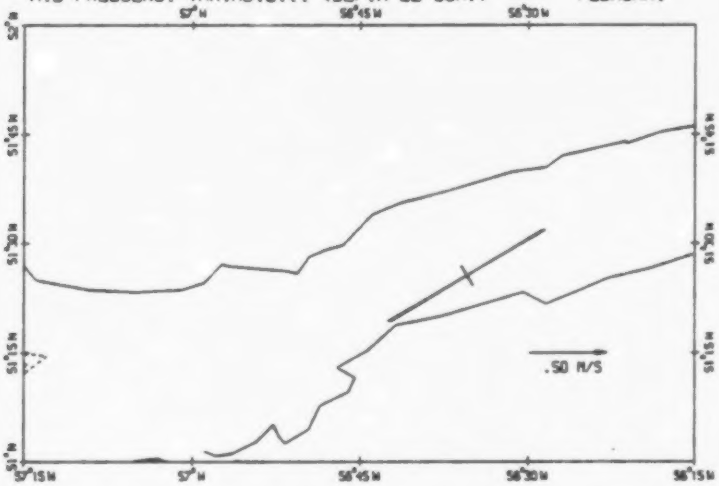
VECTOR MEAN CURRENT (DEPTH 30-100M.) OCTOBER



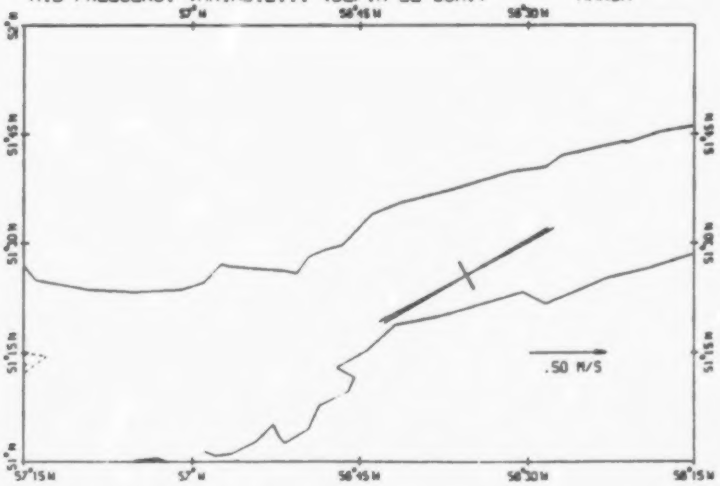
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JANUARY



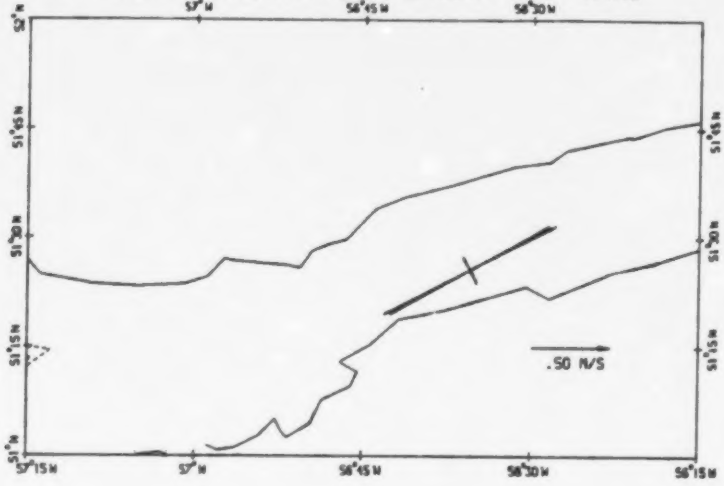
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) FEBRUARY



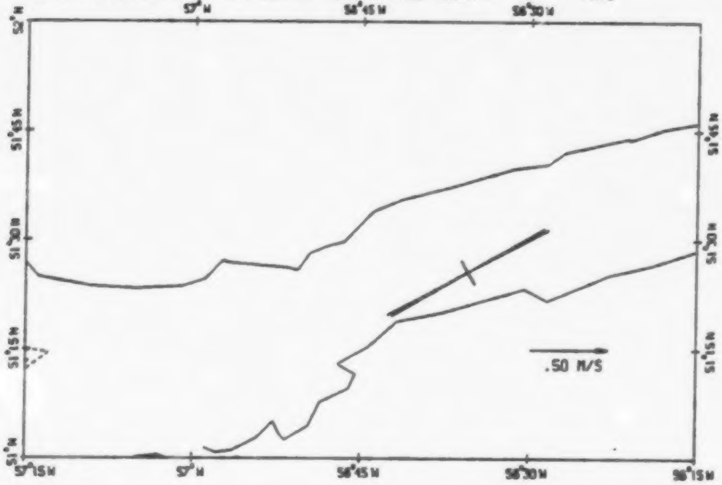
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) MARCH



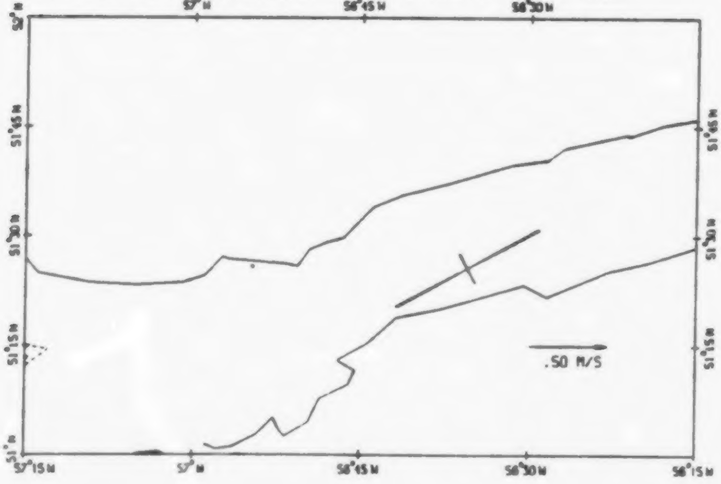
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) APRIL



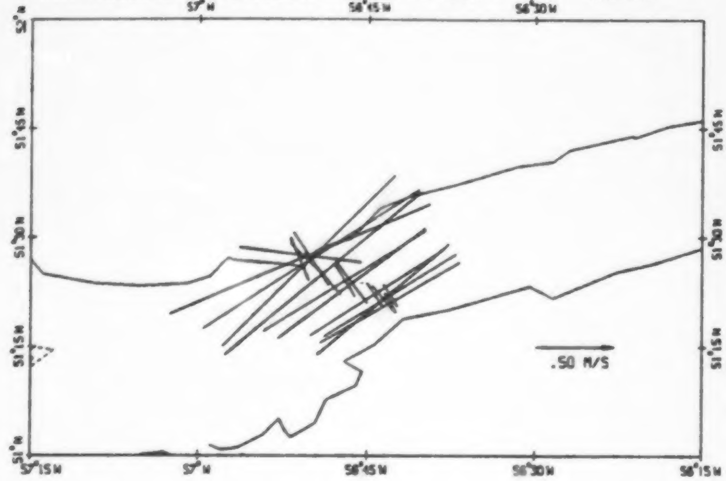
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) MAY



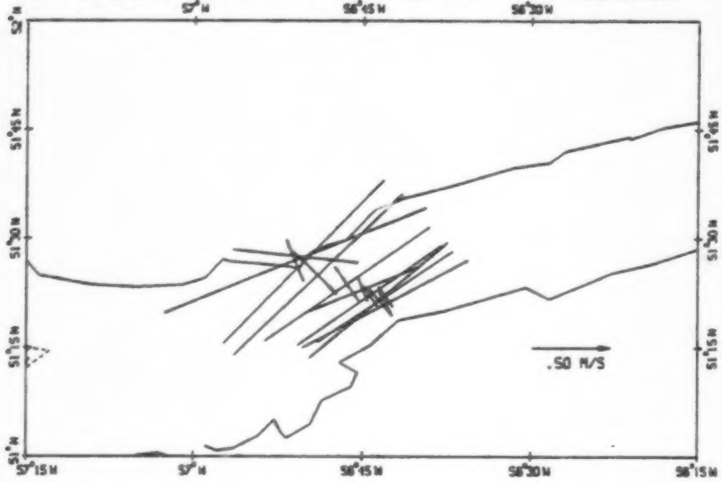
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE



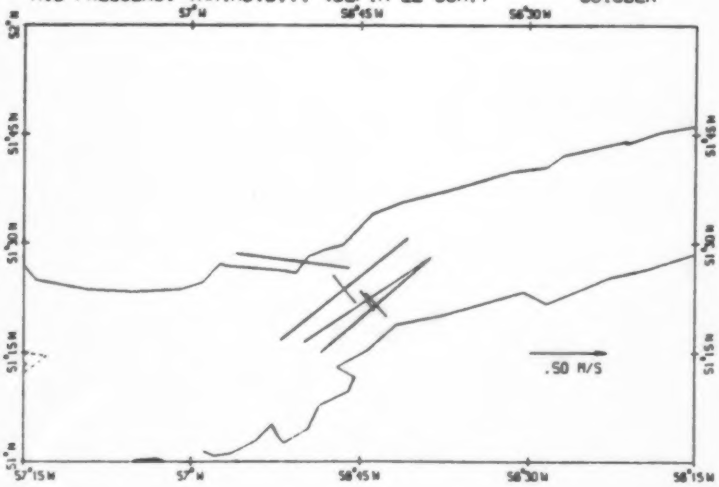
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) AUGUST



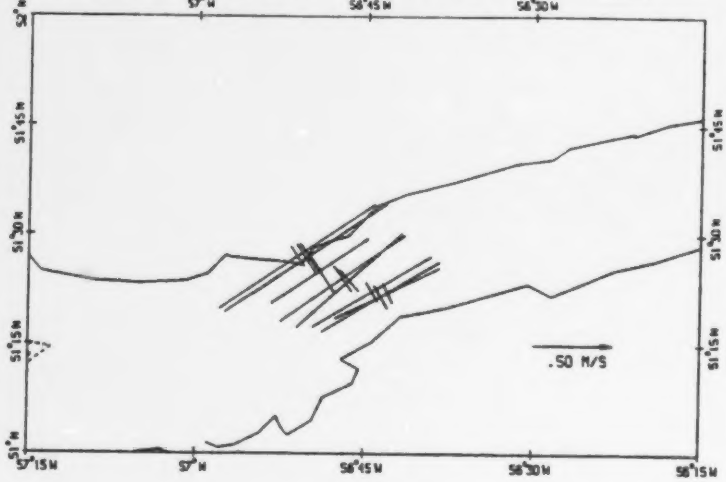
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) SEPTEMBER



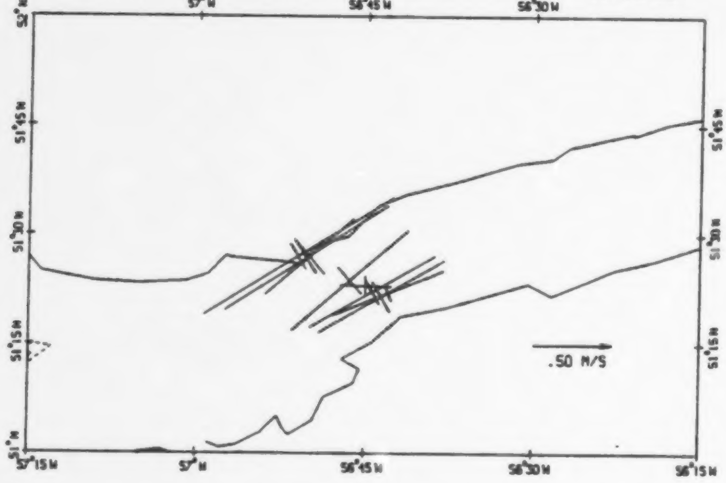
MID FREQUENCY VARIABILITY (DEPTH LE 30M.) OCTOBER



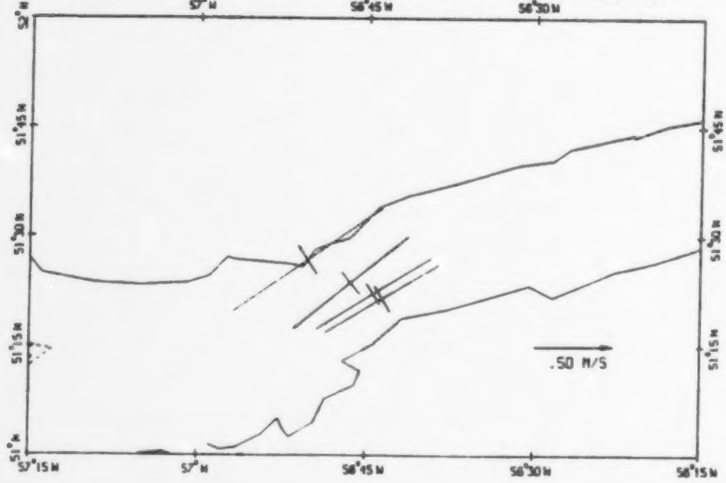
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST



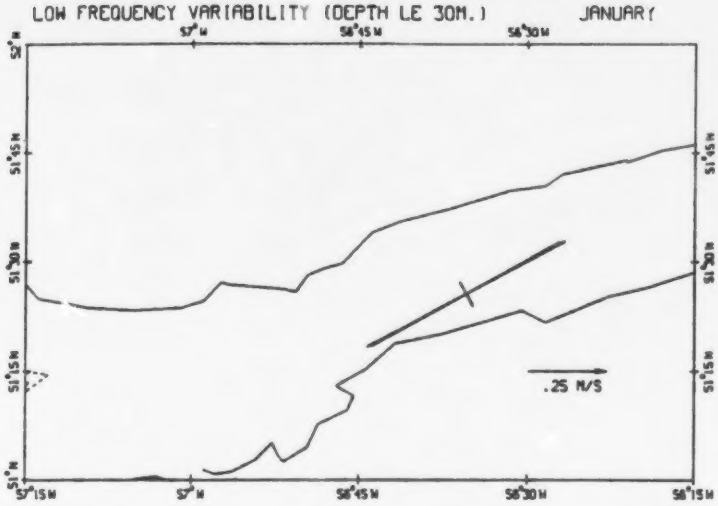
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER



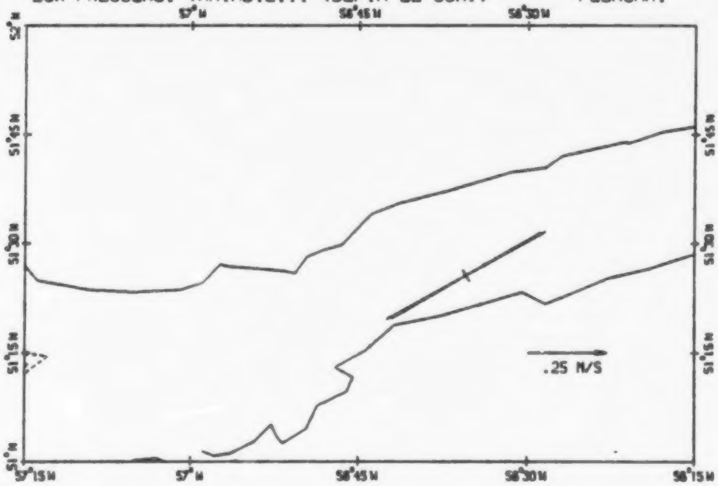
MID FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER



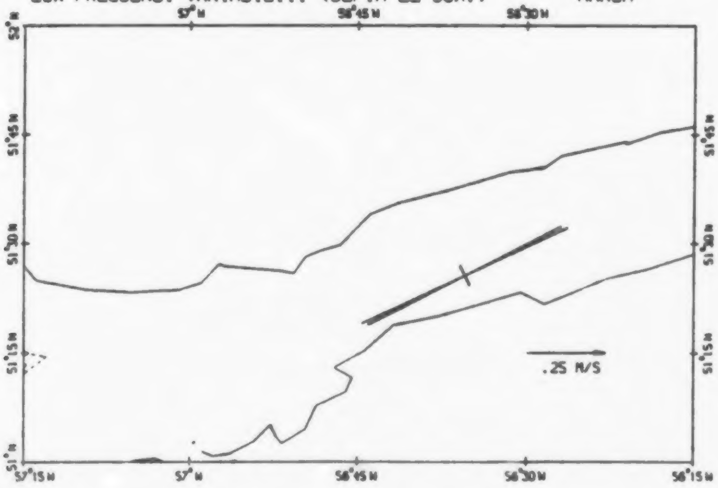
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JANUARY



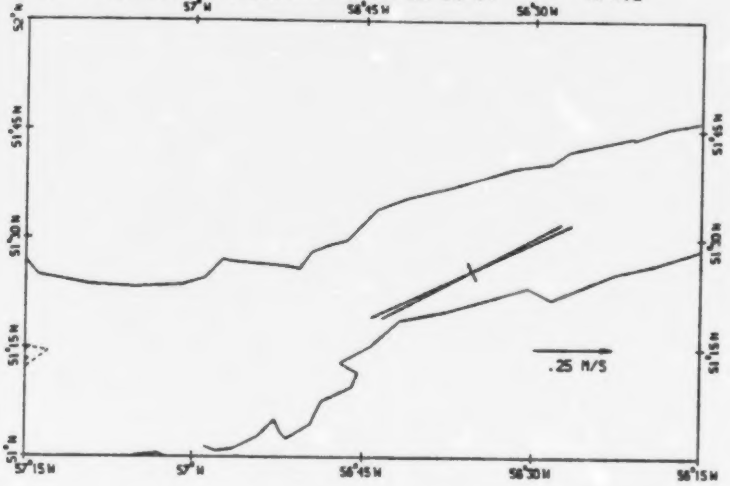
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) FEBRUARY



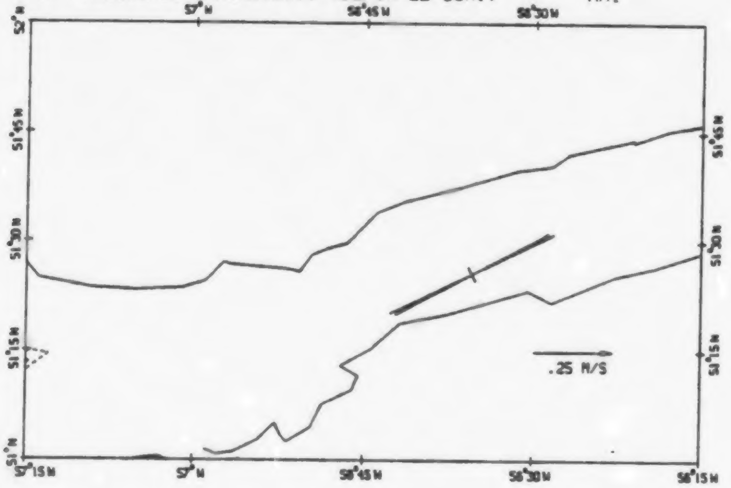
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) MARCH



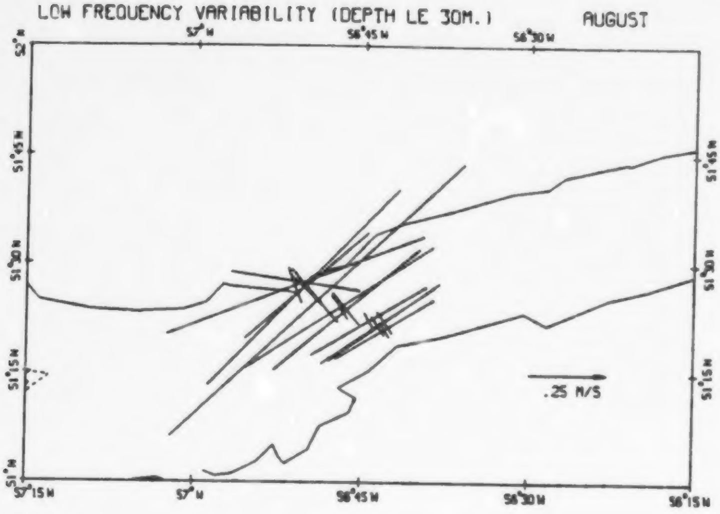
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) APRIL

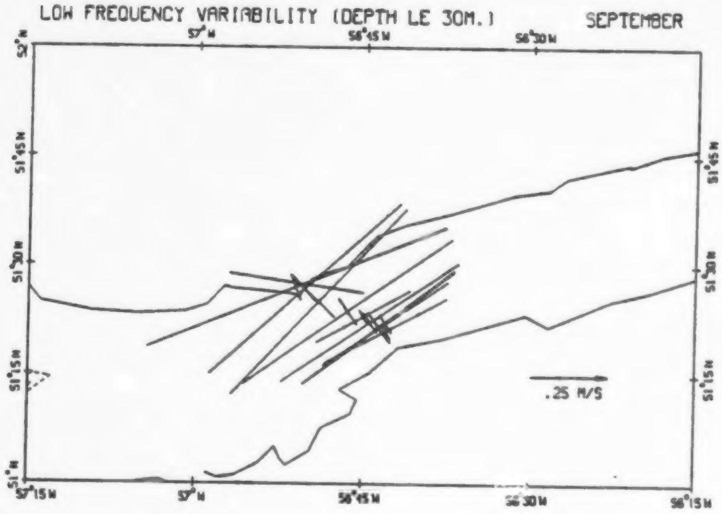


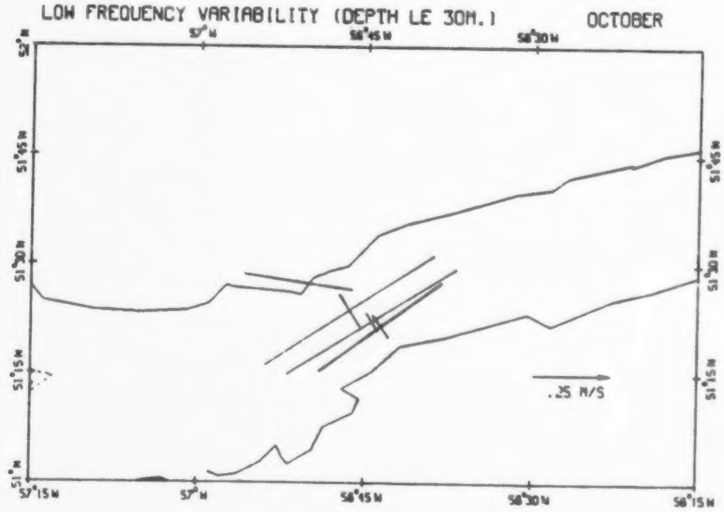
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) MAY



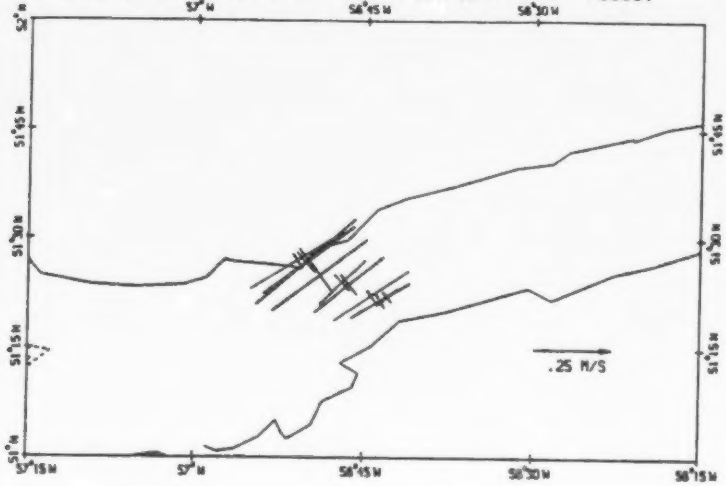
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE


LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
AUGUST
.25 M/S

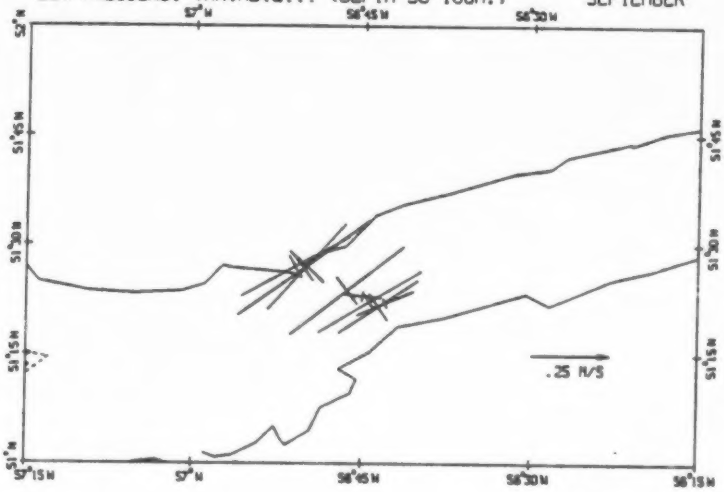

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
SEPTEMBER
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH LE 30M.)
OCTOBER
.25 M/S

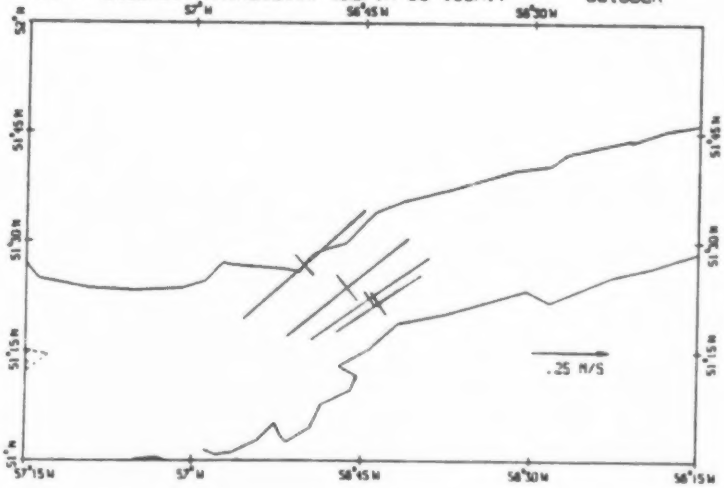
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST



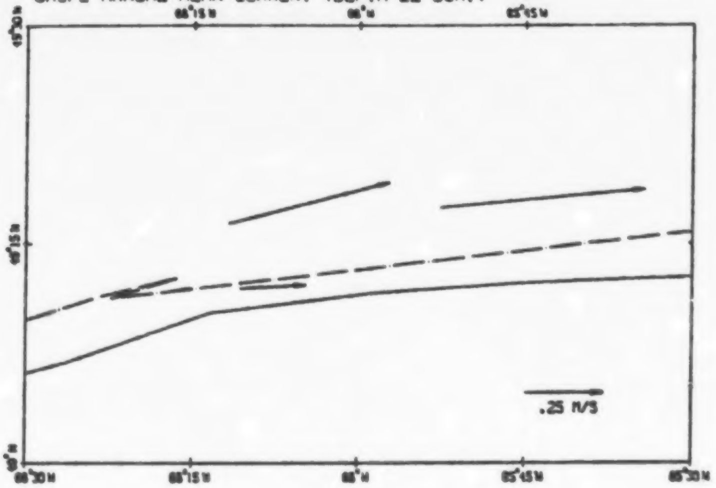
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER



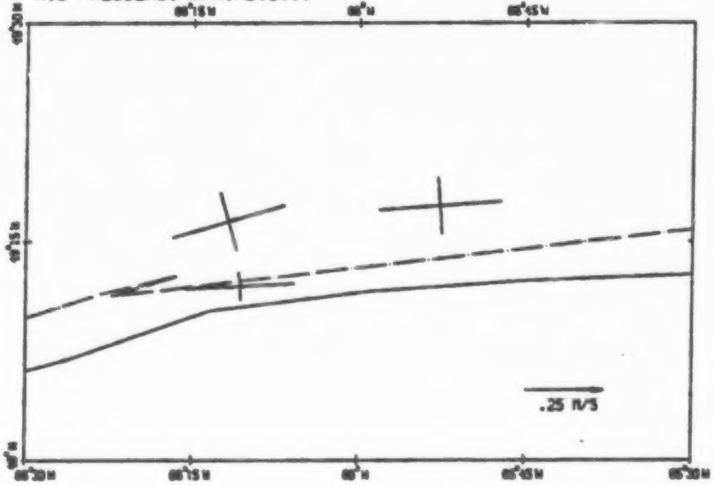
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) OCTOBER



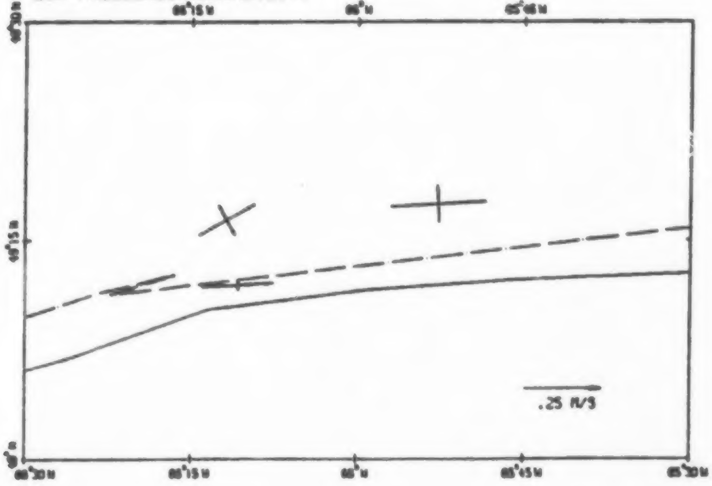
GASPE ANNUAL MEAN CURRENT (DEPTH LE 30M.)



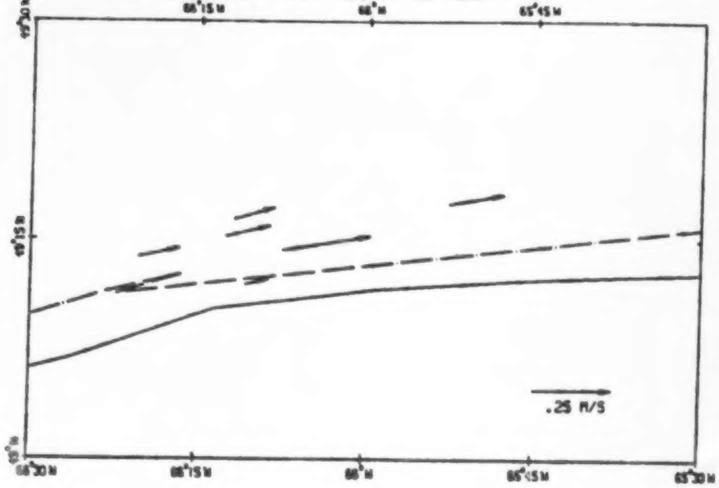
MID FREQUENCY VARIABILITY



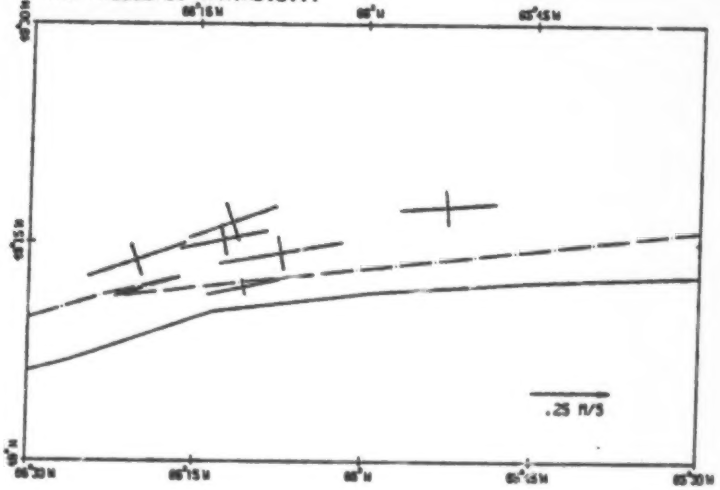
LOW FREQUENCY VARIABILITY



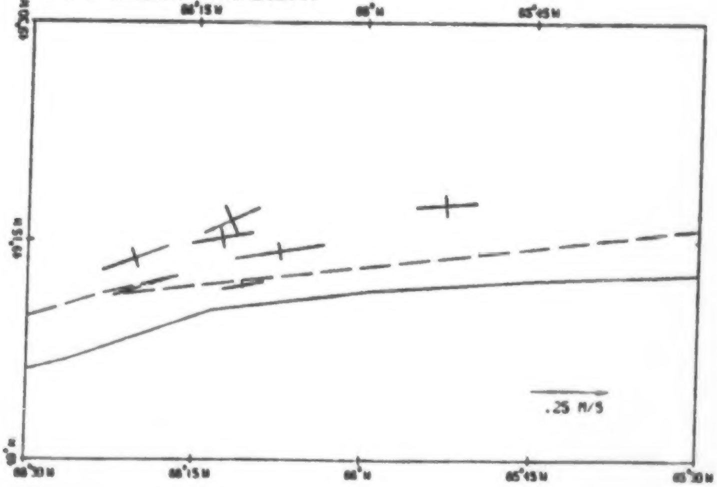
GASPE ANNUAL MEAN CURRENT (DEPTH 30-100M.)



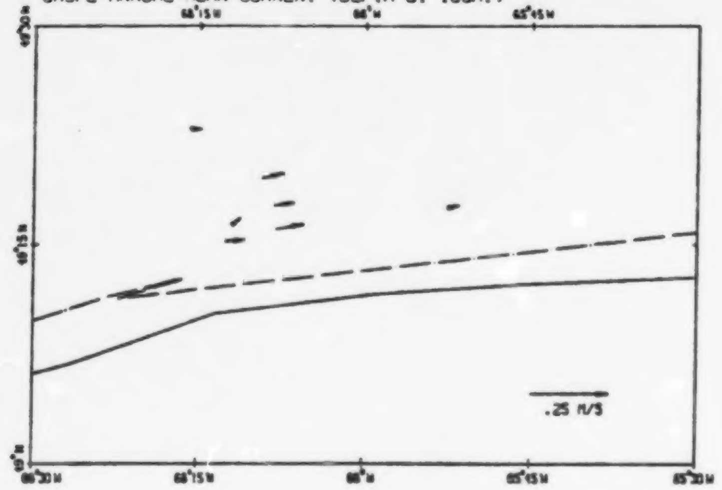
MID FREQUENCY VARIABILITY



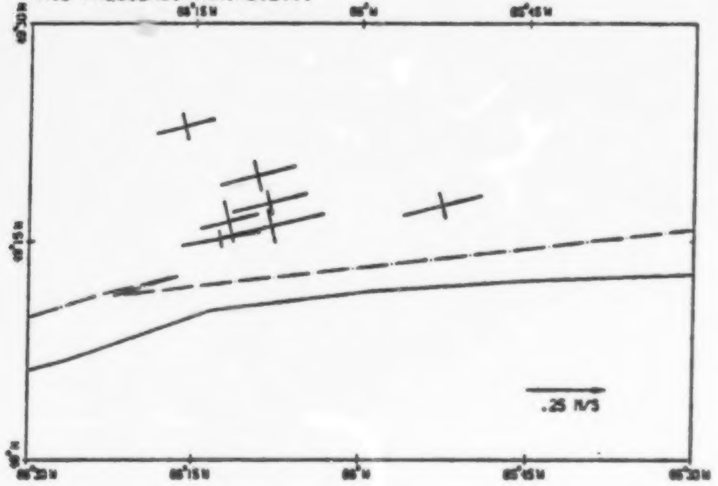
LOW FREQUENCY VARIABILITY



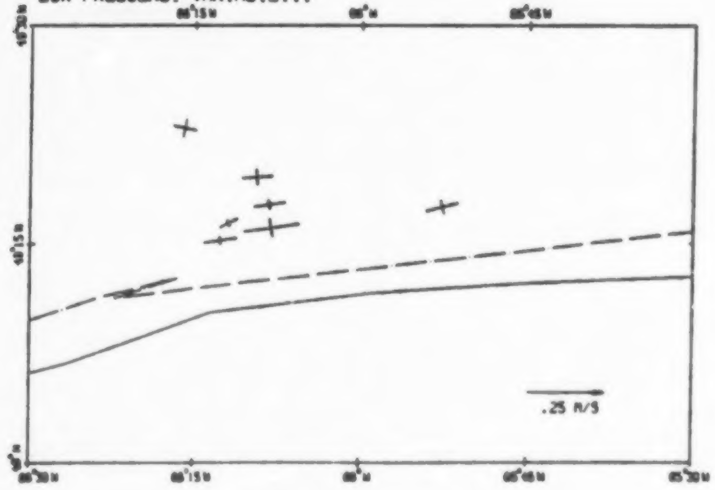
GASPE ANNUAL MEAN CURRENT (DEPTH GT 100M.)

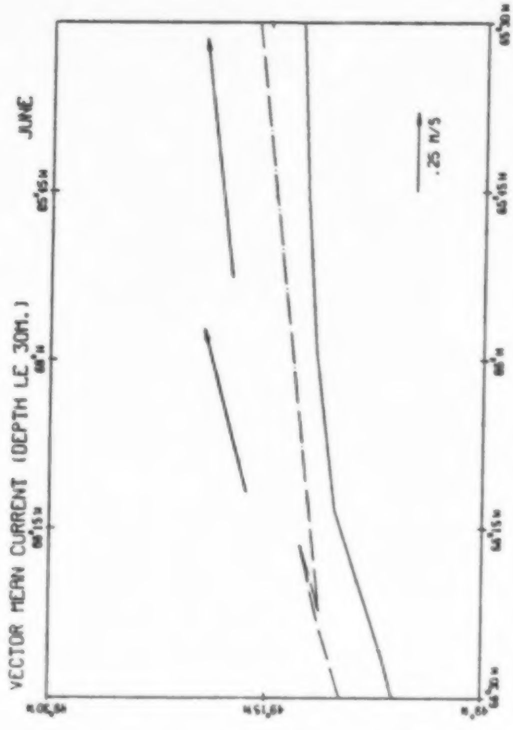


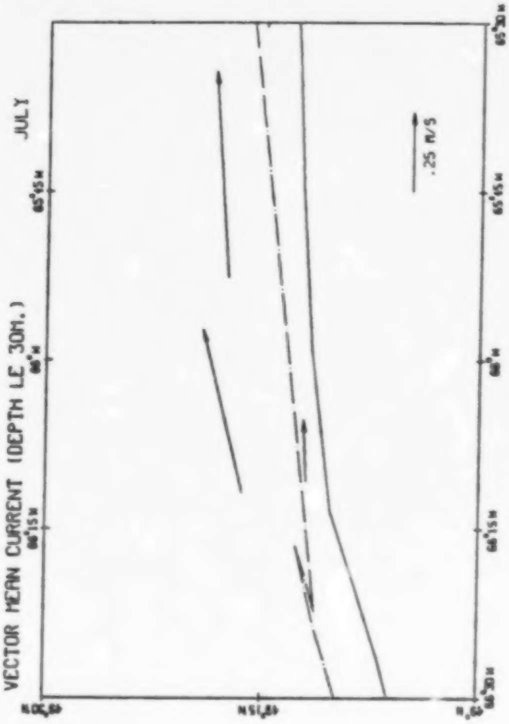
MID FREQUENCY VARIABILITY

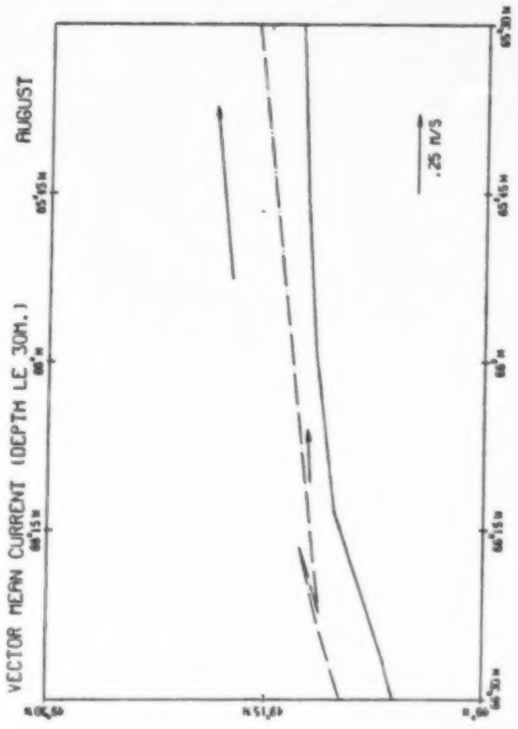


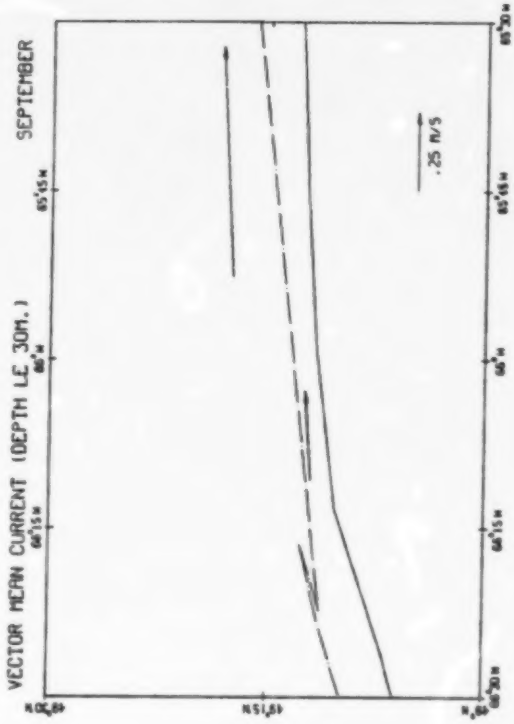
LOW FREQUENCY VARIABILITY

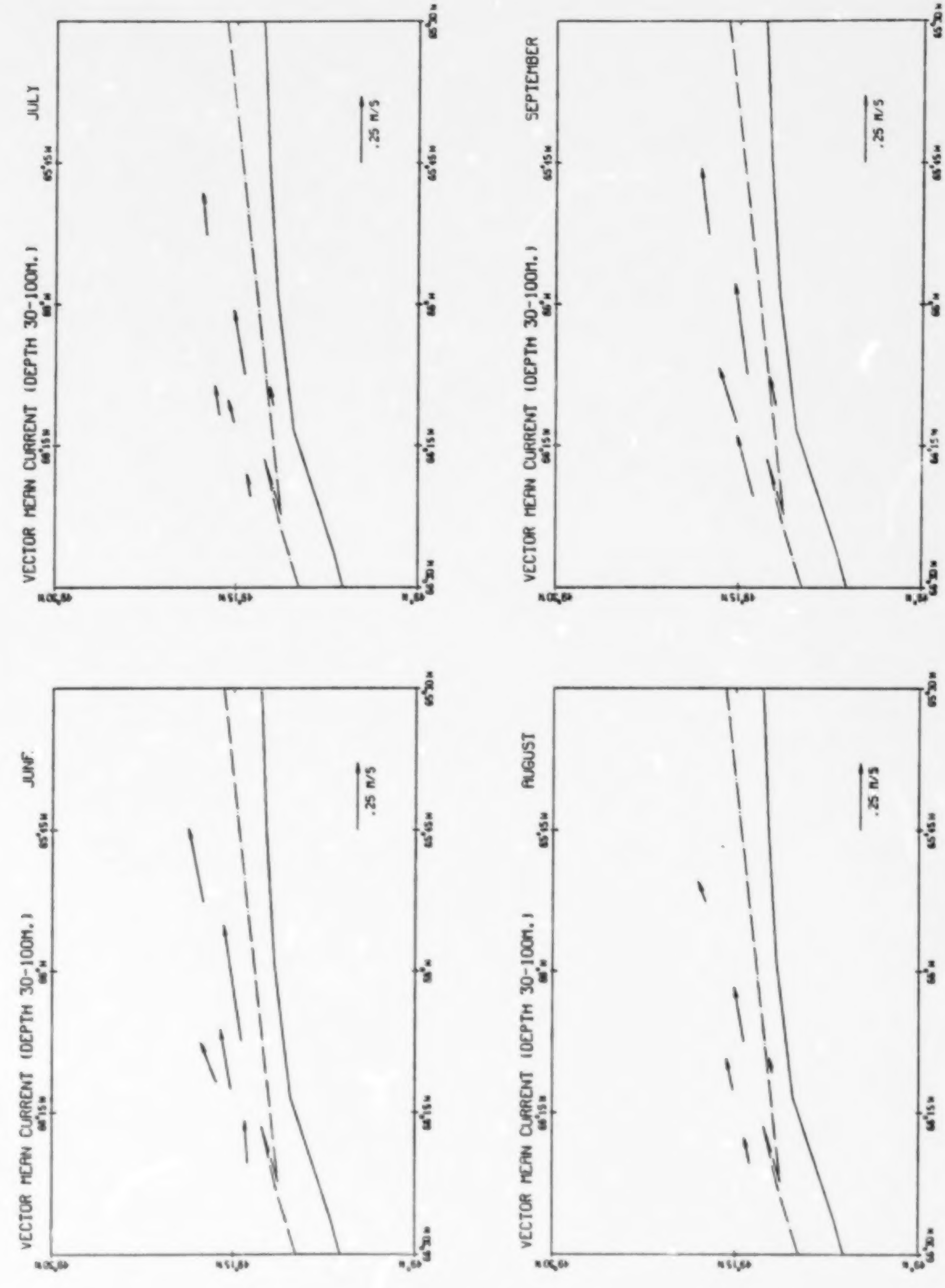


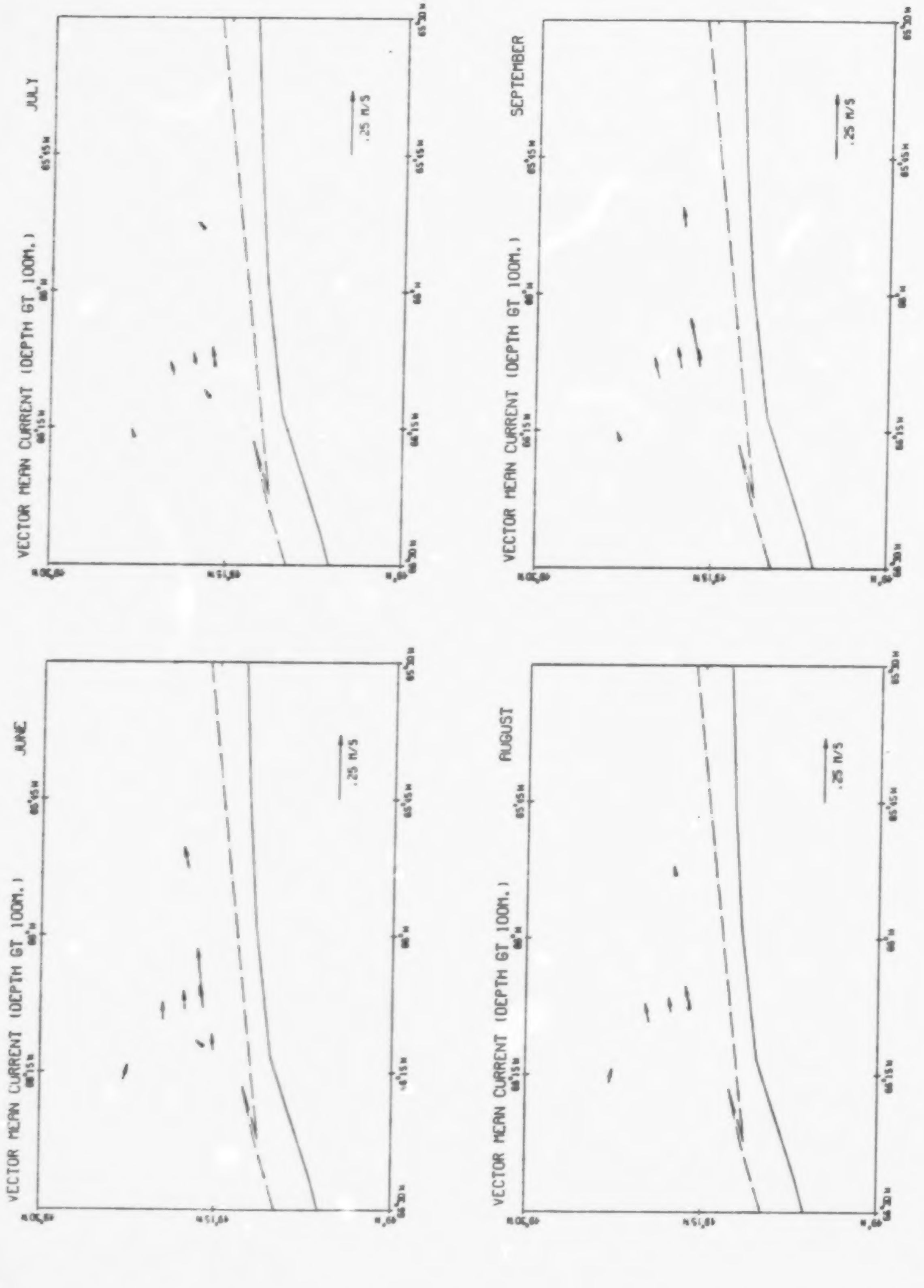

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JUNE
.25 M/S

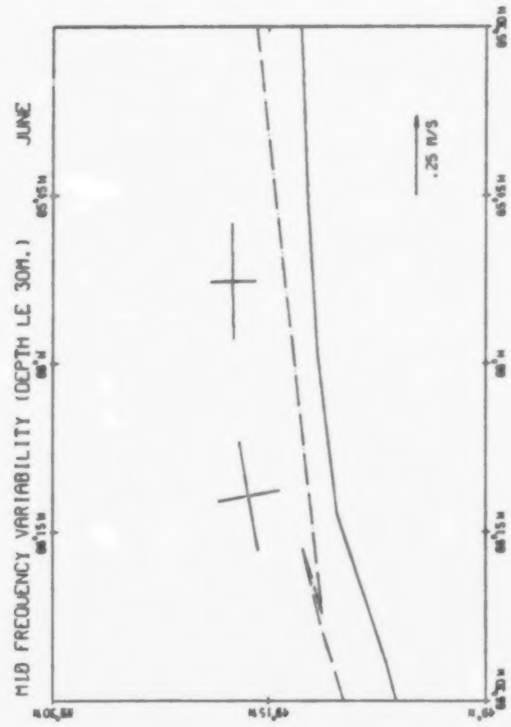

VECTOR MEAN CURRENT (DEPTH LE 30M.)
JULY
.25 M/S

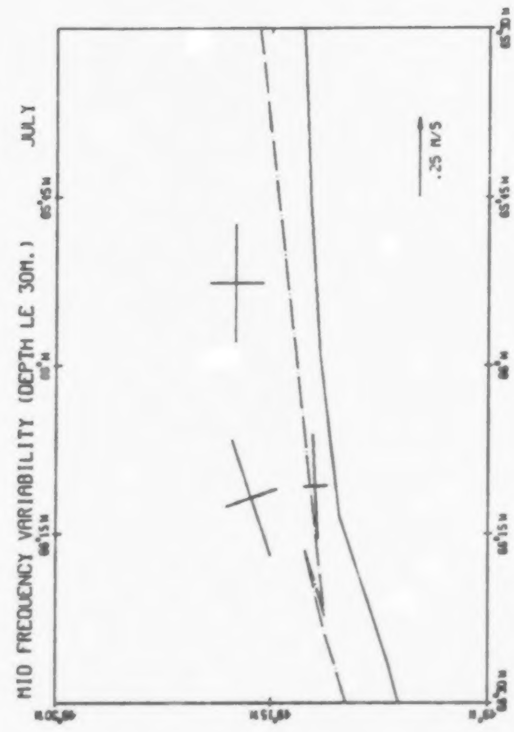

VECTOR MEAN CURRENT (DEPTH LE 30M.)
AUGUST
.25 M/S

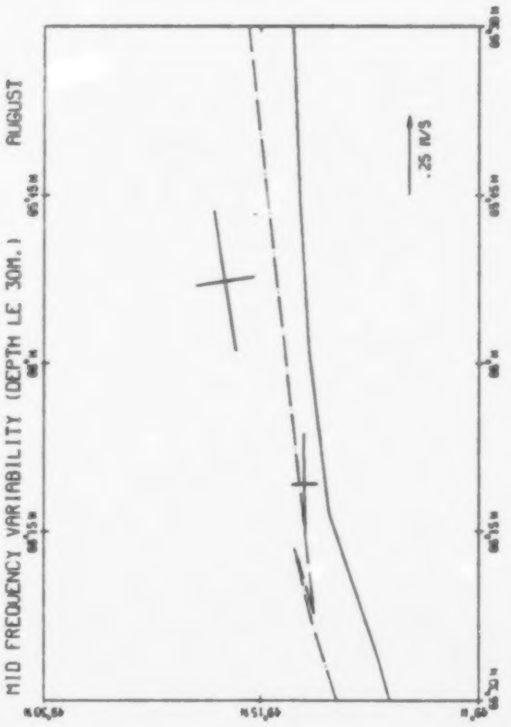

VECTOR MEAN CURRENT (DEPTH LE 30M.)
SEPTEMBER
.25 M/S

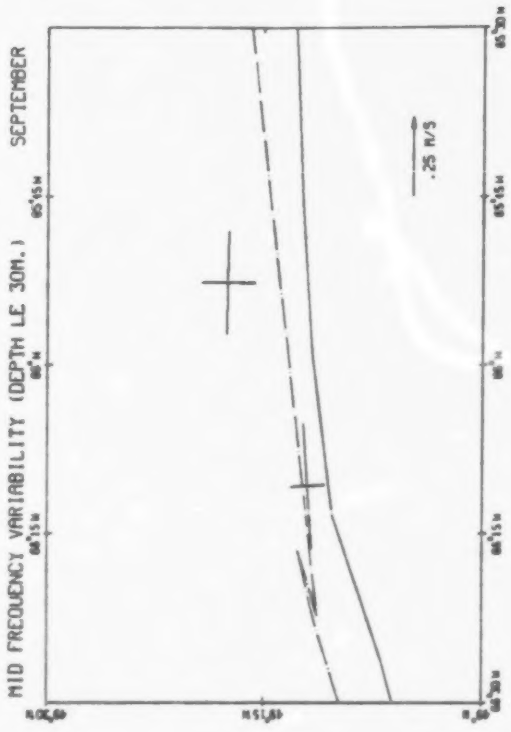

VECTOR MEAN CURRENT (DEPTH 30-100M.) JUNE
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) JULY
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) AUGUST
.25 M/S
VECTOR MEAN CURRENT (DEPTH 30-100M.) SEPTEMBER
.25 M/S

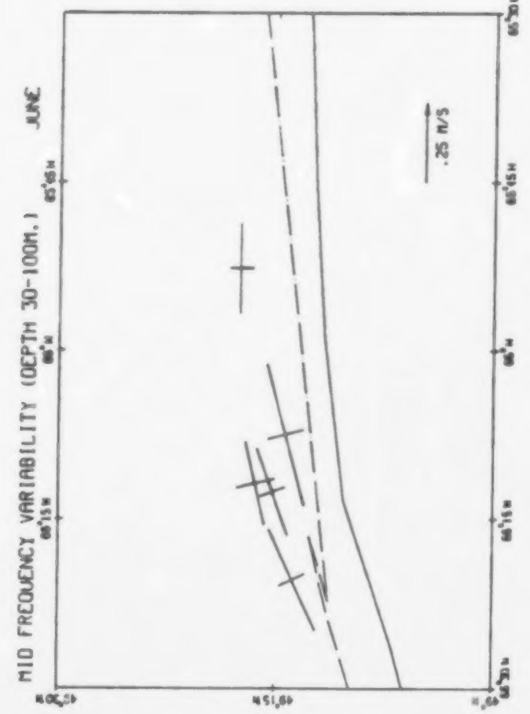

VECTOR MEAN CURRENT (DEPTH GT 100M.) JUNE
.25 M/S
66°15'W
66°W
65°15'W
66°30'W
65°30'W
VECTOR MEAN CURRENT (DEPTH GT 100M.) JULY
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) AUGUST
.25 M/S
VECTOR MEAN CURRENT (DEPTH GT 100M.) SEPTEMBER
.25 M/S

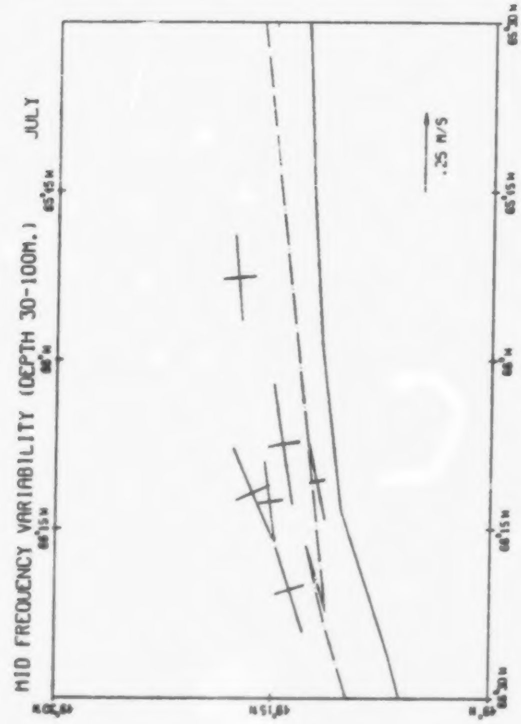

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE
.25 M/S

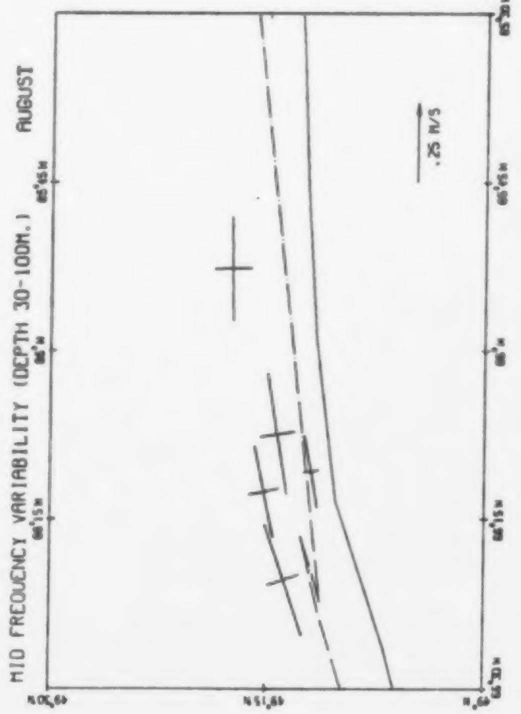

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) JULY
.25 M/S

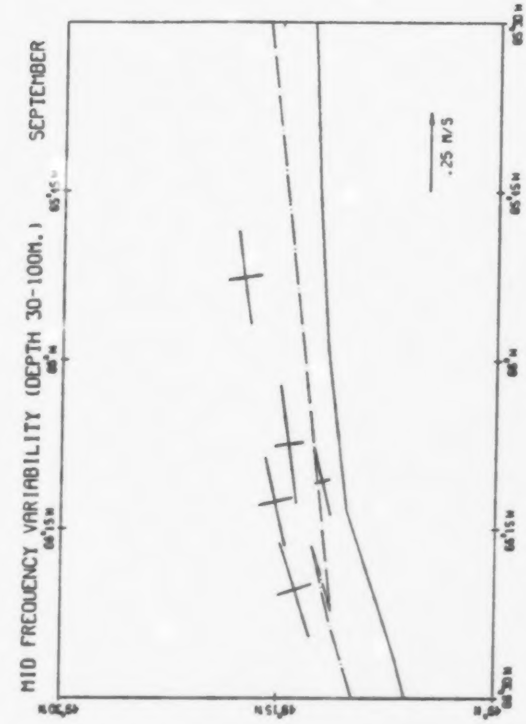

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) AUGUST
.25 M/S

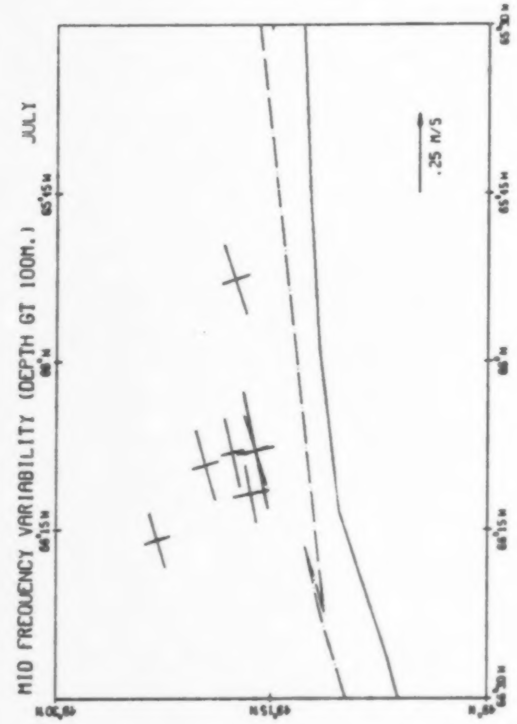

MID FREQUENCY VARIABILITY (DEPTH LE 30M.) SEPTEMBER
.25 M/S

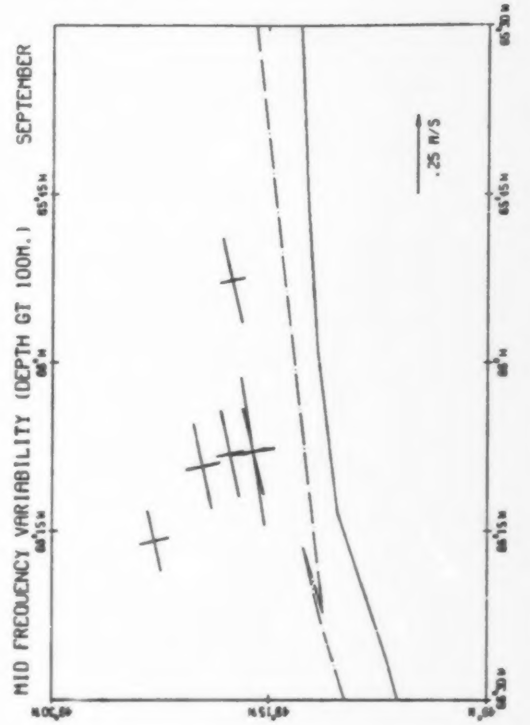

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JUNE
.25 M/S

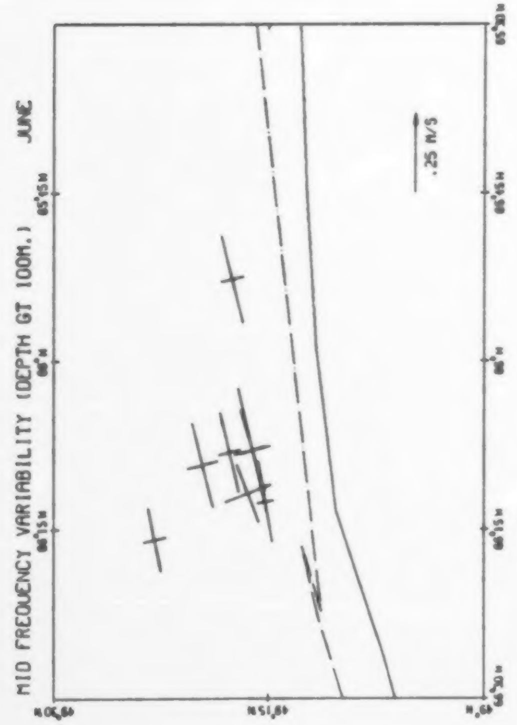

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) JULY
.25 M/S

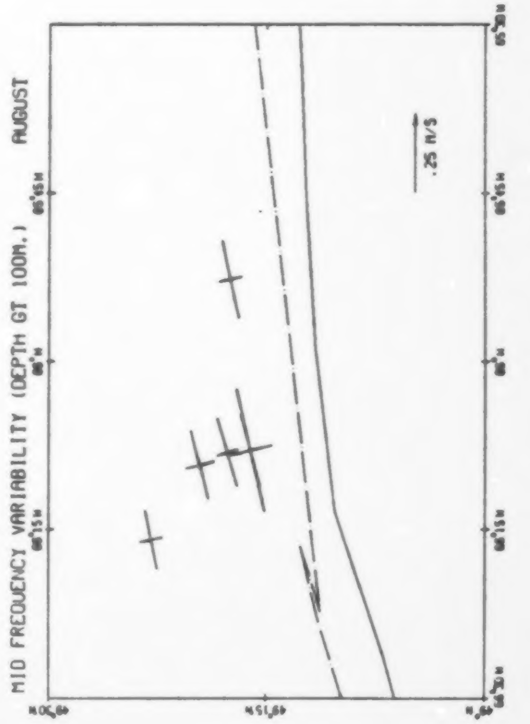

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST
.25 M/S

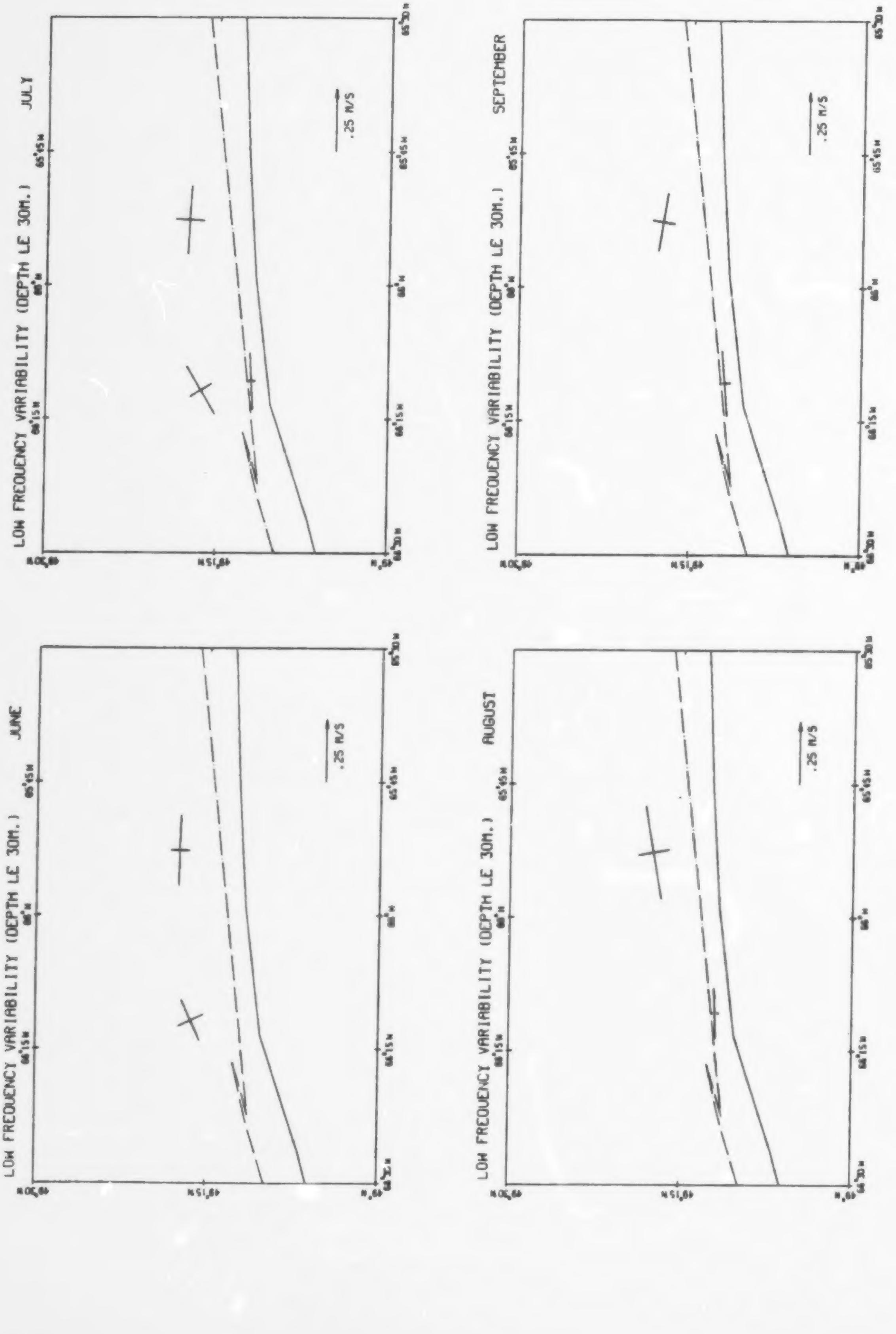

MID FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
.25 M/S

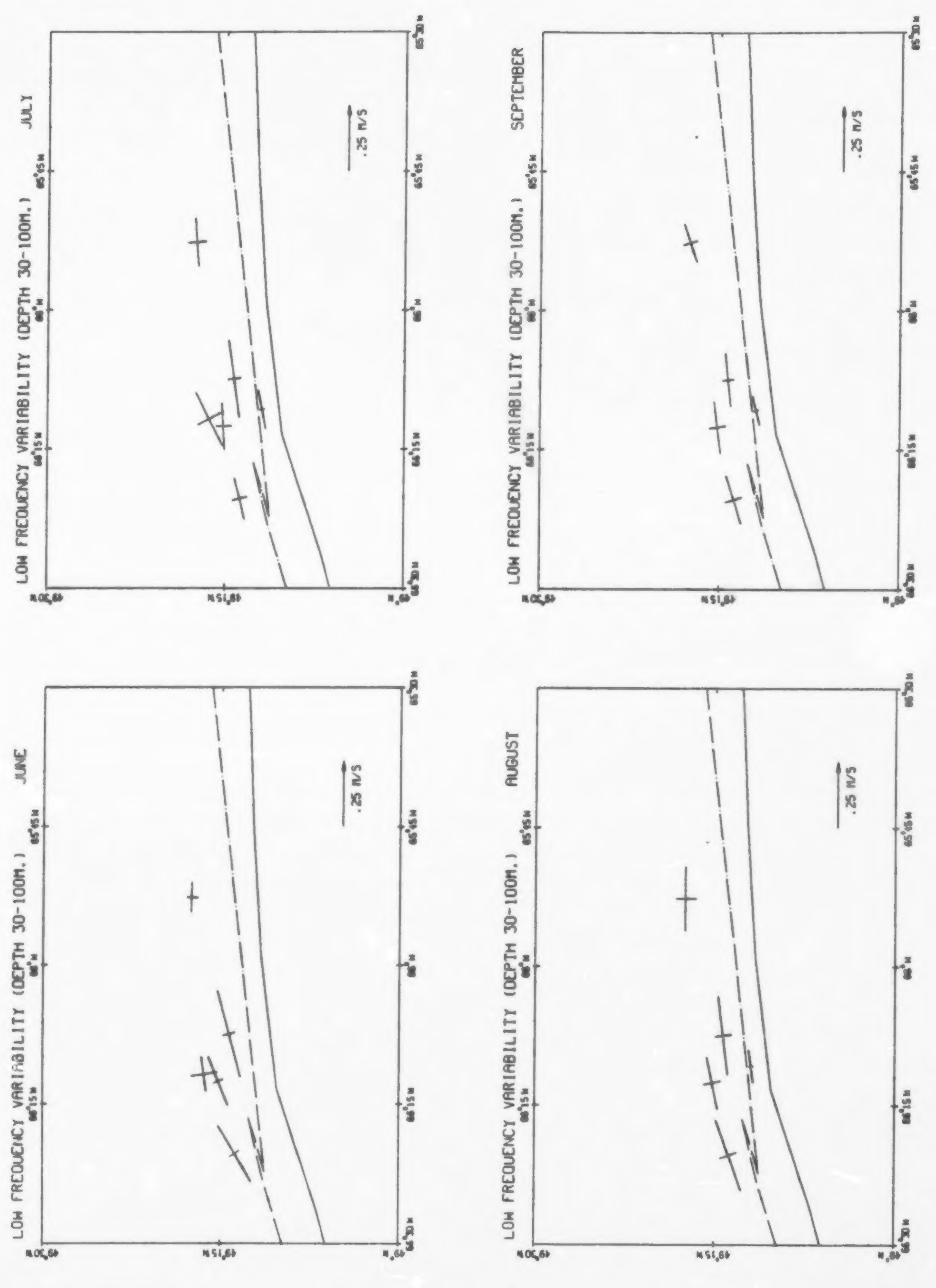

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
.25 M/S

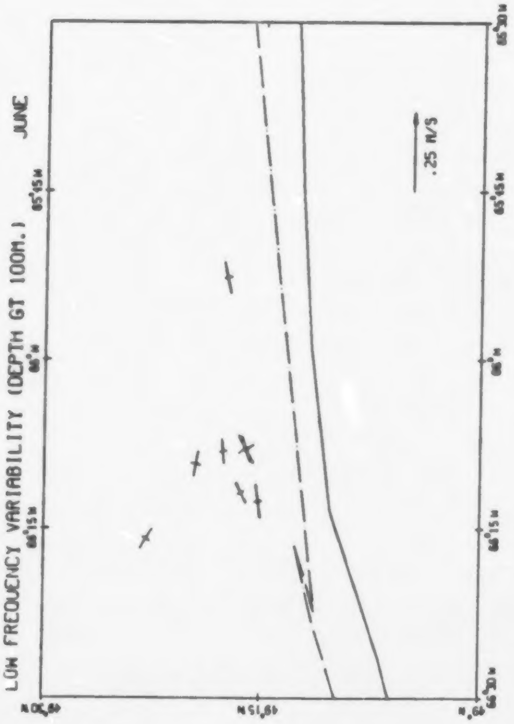

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.25 M/S

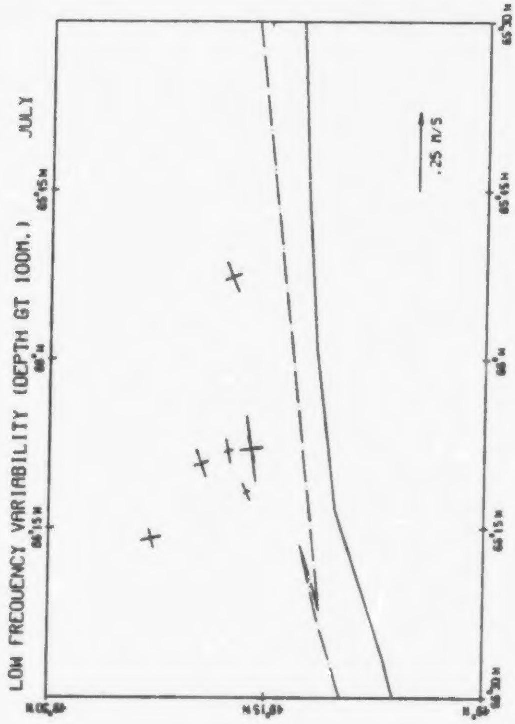

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
.25 M/S

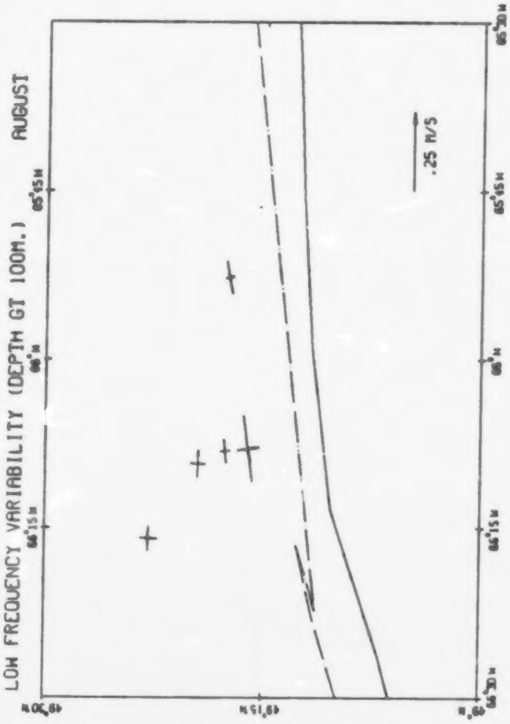

MID FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.25 M/S

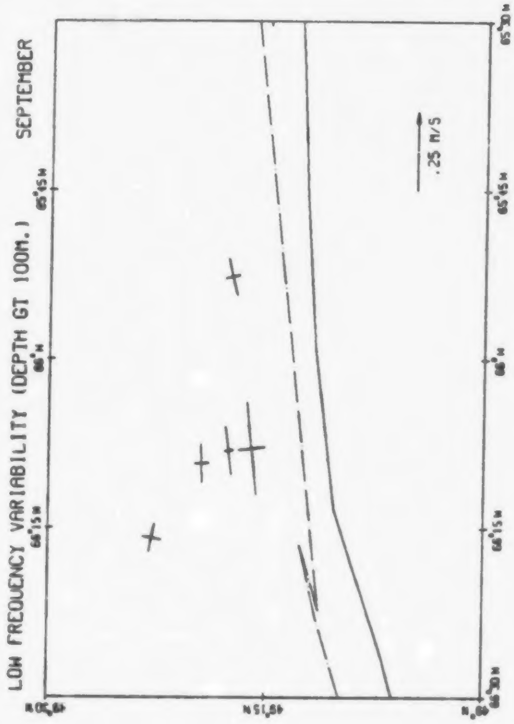

LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JULY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) SEPTEMBER
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) JUNE
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH LE 30M.) AUGUST
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JULY
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) SEPTEMBER
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) JUNE
.25 M/S
LOW FREQUENCY VARIABILITY (DEPTH 30-100M.) AUGUST
.25 M/S


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JUNE
.25 M/S
49°30'N
49°15'N
49°N
66°30'W
66°15'W
66°W
65°45'W
65°30'W


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) JULY
.25 M/S
49°30'N
49°15'N
49°N
66°30'W
66°15'W
66°W
65°45'W
65°30'W


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) AUGUST
.25 M/S
49°30'N
49°15'N
49°N
66°30'W
66°15'W
66°W
65°45'W
65°30'W


LOW FREQUENCY VARIABILITY (DEPTH GT 100M.) SEPTEMBER
.25 M/S
49°30'N
49°15'N
49°N
66°30'W
66°15'W
66°W
65°45'W
65°30'W